




# **Attachment C14(d)**

**Proponent Phase I and Phase II  
Environmental Site Assessment (4/8)**

# Appendix E

## Plates

Plate	Description
	<p>Fragments of ACM on ground surface, between Unit 9 and the Sites northern boundary. Pieces of slag, broken glass, ash/coke and metal also present.</p>
	<p>Slag nodule on ground surface on the northern side of Unit 9.</p>
	<p>Example of mixed/variable filling material at borehole BH22. The red-brown material (bottom tube, between the jars) is believed to be foundry/casting sand, logged as "Ironstone gravels".</p>



Example of mixed/variable filling material at borehole BH10.



Example of mixed/variable filling material at borehole BH18.



Fill material from BH100.

# Appendix F

Logs

<b>PROJECT NUMBER</b>	60438840	<b>DATE</b>	21 & 22 August 2015
<b>PROJECT NAME</b>	Burrows Industrial Estate	<b>BLANK</b>	0.0 to 0.454 m bgs
<b>LOCATION</b>	1-3 Burrows Road, Alexandria NSW	<b>SCREEN</b>	0.454 to 3.454 m bgs
<b>DRILLING METHOD</b>	Hand Auger / Push-tube / Solid Auger	<b>GRAVEL PACK</b>	0.3 to 3.454 m bgs
<b>SAMPLING METHOD</b>	Hand Auger / Push-tube	<b>SANITARY SEAL/BENTONITE</b>	0.1 to 0.3 m bgs
<b>SURFACE ELEVATION</b>	2.210 m AHD	<b>STABILISED WATER LEVEL</b>	1.030 m BTOC
<b>WELL HEAD/TOC</b>	2.12 m AHD	<b>GROUND WATER ELEVATION</b>	1.090 m AHD
<b>LOGGED BY</b>	K. Pigram	<b>NORTHING</b>	6245408.202
<b>COMMENTS</b>		<b>EASTING</b>	331543.004

PID (ppm)	RECOVERY	SAMPLE NUMBER	ANALYSED	DEPTH (m BGS)	GRAPHIC LOG	USCS CLASS	LITHOLOGIC DESCRIPTION	CONTACT DEPTH	WELL DIAGRAM
0.1		BH01_0.3-0.4	*	0.2	CONCRETE		Concrete Slab	0.17	<p>The well diagram shows a vertical cross-section of the well. At the top, there is a concrete slab. Below it is a layer of gravel fill (roadbase) and another concrete slab. The main well casing is made of bentonite. A graded sand slotted screen is located at 2.00 m depth. At the bottom, there is a cave-in at 3.90 m depth. The water level is indicated at 1.030 m BTOC.</p>
		BH01_1.0-1.1	*	1.0	FILL		Gravelly Sand FILL. Dark brown with orange ironstone gravels, medium grained sand, loose to medium dense, dry to slightly moist. Contains minor silt, ironstone gravels (20%), sand (80%) and piece of white porcelain. Becoming slightly moist from 1.0 m bgs. Contains minor soft, low plasticity clay (10%). Water level at 1.25 m bgs; measured in borehole with tape measure	0.19	
		BH01_2.0-2.1		2.0	FILL		Sandy Clay FILL. Possible reworked natural. Dark grey brown with light grey mottling, medium stiff, moist to saturated, low plasticity.	2.00	
		BH01_2.8-3.0		2.8	CL		Sandy CLAY. Dark grey/brown, medium stiff, saturated, medium plasticity. Contains shells, clay content increasing with depth. Slight hydrogen sulphide odour noted.	2.80	
		BH01_3.8-3.9	*	3.8			Becoming light grey from 3.8 m bgs.	3.90	
				3.9			Borehole terminated at 3.9 m bgs; target depth reached Total Depth: 3.90 m		



PROJECT NUMBER 60438840 DATE 29 Aug 15  
 PROJECT NAME Burrows Industrial Estate  
 LOCATION 1-3 Burrows Road, Alexandria NSW  
 DRILLING METHOD Hand Auger / Push-tube / Solid Auger  
 SAMPLING METHOD Hand Auger / Push-tube  
 SURFACE ELEVATION 2.580 m AHD

LOGGED BY K. Pigram NORTHING 6245363.848  
 COMMENTS EASTING 331576.145

PID (ppm)	RECOVERY	SAMPLE NUMBER	ANALYSED	DEPTH (m BGS)	GRAPHIC LOG	USCS CLASS	LITHOLOGIC DESCRIPTION	CONTACT DEPTH
				0.2		CONCRETE	Concrete Slab	0.32
0.2		BH02_0.4-0.5	*	0.4		CONCRETE FILL	Concrete gravels/broken pieces of Slab	0.40
0.4		BH02_1.0-1.1		0.6		FILL	Gravelly Sand FILL. Grey/brown and white, loose to medium dense, dry to slightly moist. Contains sandstone and concrete gravels (<10 mm diameter). Refusal with hand auger at 0.8 m bgs; switch to push-tube.	
				1.0		FILL	Becoming moist from 1.0 m bgs. Contains terracotta, glass and ceramic fragments and concrete gravels.	
				1.2		FILL	Becoming saturated at 1.3 m bgs	
2.9		BH02_2.0-2.1	*	1.8		FILL	Clayey Gravelly Sand FILL. Dark grey/brown, dense, saturated. Contains slag and ceramic gravels (30%), soft, low plasticity clay (20%), medium grained sand (40%) and minor silt.	1.70
				2.0		FILL		
				2.2		FILL		
				2.4		FILL		
				2.6		FILL		
				2.8		FILL		
14.1		BH02_3.0-3.1	*	3.0		CH	CLAY. Dark grey/brown / black, medium stiff, saturated, high plasticity. Contains trace sand and trace silt and shell fragments. Slight hydrogen sulphide odour.	2.90
				3.2		CH		
				3.4		CL-CH	Sandy CLAY. Dark grey/brown, stiff, saturated, medium to high plasticity. Contains fine to medium grained sand (20%) and shell fragments. Slight to moderate hydrogen sulphide odour.	3.40
				3.6		CL-CH		
2.5		BH02_3.8-3.9		3.8		CL-CH		3.90
				3.9			Borehole terminated at 3.9 m bgs; target depth reached Total Depth: 3.90 m	



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# BOREHOLE\_LOG BH03

PROJECT NUMBER 60438840 DATE 29 Aug 15  
 PROJECT NAME Burrows Industrial Estate  
 LOCATION 1-3 Burrows Road, Alexandria NSW  
 DRILLING METHOD Hand Auger / Push-tube / Solid Auger  
 SAMPLING METHOD Hand Auger / Push-tube  
 SURFACE ELEVATION 2.320 m AHD

LOGGED BY K. Pigram NORTHING 6245317.163  
 COMMENTS EASTING 331596.394

PID (ppm)	RECOVERY	SAMPLE NUMBER	ANALYSED	DEPTH (m BGS)	GRAPHIC LOG	USCS CLASS	LITHOLOGIC DESCRIPTION	CONTACT DEPTH
0.1	×	BH03_0.2-0.3	*	0.2	CONCRETE		Concrete Slab	0.14
0.3	×	BH03_0.5-0.6		0.4	FILL		Gravelly Sand FILL. Dark brown/grey, yellow, white, fine to medium grained, medium dense, slightly moist. Contains minor silt, sandstone and roadbase gravels (30%, <10 mm diameter). Becoming white and dark grey/brown mottling and dense from 0.3 m bgs. Contains crushed sandstone.	0.80
3.4	×	BH03_1.0-1.2	*	0.8	FILL		Refusal with hand auger at 0.6 m bgs on sandstone boulders; switch to solid auger. Switch to push-tube at 0.8 m bgs	
2.1	×	BH03_1.4-1.5		1.0			Gravelly Clayey Sand FILL. Dark grey/brown, dense, moist to saturated. Contains sandstone and slag gravels (30%), sand (40%) and medium stiff, low plasticity clay (30%). Becoming very dark/brown and saturated from 1.3 m bgs.	
0.7	×	BH03_2.0-2.1		1.2			As above, contains sand (50%), minor silt (10%), soft, low plasticity clay (20%), slag gravels and ceramic pieces (20%).	
19.5	×	BH03_3.0-3.1	*	1.4		CH	Sandy CLAY. Dark grey/brown, stiff, saturated, medium to high plasticity. Contains trace silt and fine to medium grained sand (20%), shell fragments. Moderate hydrogen sulphide odour.	3.00
21.3	×	BH03_3.8-3.9		1.6			Borehole terminated at 3.9 m bgs; target depth reached Total Depth: 3.90 m	3.90

60438840\_BORELOGS\_20150826.GPJ 28/9/15



PROJECT NUMBER 60438840 DATE 20 Aug 15  
 PROJECT NAME Burrows Industrial Estate  
 LOCATION 1-3 Burrows Road, Alexandria NSW  
 DRILLING METHOD Hand Auger / Push-tube / Solid Auger  
 SAMPLING METHOD Hand Auger / Push-tube  
 SURFACE ELEVATION 2.250 m AHD

LOGGED BY L. Gibb NORTHING 6245416.112  
 COMMENTS EASTING 331553.645

PID (ppm)	RECOVERY	SAMPLE NUMBER	ANALYSED	DEPTH (m BGS)	GRAPHIC LOG	USCS CLASS	LITHOLOGIC DESCRIPTION	CONTACT DEPTH
0.0		BH04_0.15-0.25		0.2	ASPHALT		Bitumen Hardstand	0.06
				0.2	CONCRETE		Concrete Slab	0.20
				0.4	FILL		Gravelly Sand FILL. Black and grey, loose, moist. Contains minor medium silt, low plasticity clay pockets, subangular blue metal gravels, minor vesicular slag gravels (2-5 mm diameter).	
0.5		BH04_0.5-0.6	*	0.8	FILL		Becoming black with brown mottling from 0.4 m bgs. Mild hydrocarbon odour.	0.80
				1.0	FILL		Becoming brown with orange mottling from 0.6 m bgs	1.10
0.6		BH04_1.0-1.1	*	1.2	FILL		Silty Sandy Gravel FILL. Black/brown with orange mottling, medium dense, slightly moist.	
0.1		BH04_1.5-1.6		1.4	FILL		Contains ceramic tile fragments, aluminium, ironstone gravels from 0.9 m bgs.	1.50
				1.6	FILL		Slight odour noted.	
				1.8	FILL		Silty Gravelly Sand FILL. Very moist to saturated. Contains vesicular slag (10 mm diameter), shell fragments. Slight odour noted.	
				2.0	FILL		Sandy Gravel FILL. Saturated. Iron stained slag gravels with pockets of grey medium to coarse grained silty sand. Contains shell fragments and rusted bolts and nails.	2.30
0.1		BH04_2.3-2.4	*	2.2	CL			2.30
				2.4	CL			2.50
0.2		BH04_2.7-2.8		2.6	SM		Silty CLAY. Dark grey and black, moist, medium plasticity. Contains organic fibres. Slight hydrogen sulphide odour.	
				2.8	SM		Silty SAND. Light grey and dark brown, fine to medium grained, moist. Contains organic fibres and shell fragments.	
				3.0	SM		Becoming light brown, medium dense and saturated from 2.7 m bgs. Contains numerous organic fibres. Organic odour noted.	
				3.2	SM			
				3.4	SM			
0.1		BH04_3.5-3.6		3.6	SM		Contains high shell fragment content and organic fibres from 3.5 m bgs	
				3.8	SM			3.90
							Borehole terminated at 3.9 m bgs; target depth reached Total Depth: 3.90 m	



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# BOREHOLE\_LOG BH05

PROJECT NUMBER 60438840 DATE 20 Aug 15  
 PROJECT NAME Burrows Industrial Estate  
 LOCATION 1-3 Burrows Road, Alexandria NSW  
 DRILLING METHOD Hand Auger / Push-tube / Solid Auger  
 SAMPLING METHOD Hand Auger / Push-tube  
 SURFACE ELEVATION 2.190 m AHD

LOGGED BY L. Gibb NORTHING 6245401.397  
 COMMENTS EASTING 331587.754

PID (ppm)	RECOVERY	SAMPLE NUMBER	ANALYSED	DEPTH (m BGS)	GRAPHIC LOG	USCS CLASS	LITHOLOGIC DESCRIPTION	CONTACT DEPTH
1.0		BH05_0.25-0.35		0.2	ASPHALT		Bitumen Hardstand	0.05
				0.2	CONCRETE		Concrete Slab	0.19
1.8		BH05_0.5-0.6	*	0.4	FILL		Gravelly Sand FILL. Black and dark brown, medium to coarse grained, loose to medium dense, dry. Contains pockets of silt, sandstone and blue metal gravels. Slight odour.	0.40
				0.6	FILL			0.50
0.4		BH05_1.0-1.1	*	0.8			Clay FILL. Orange with black mottling, stiff, high plasticity. Contains rusted nails and sandstone gravels (20-50 mm diameter).	
				1.0				
0.0		BH05_1.5-1.6		1.2			Silty Sand FILL. Black, medium to coarse grained, medium dense, dry. Contains minor sandstone gravels, glass and ceramic fragments. Slight odour noted.	
				1.4			Iron staining of sandstone gravels noted from 0.8 m bgs. Contains bone and slag fragments.	
				1.6			Becoming very moist from 1.0 m bgs. Contains glass, metal and ceramic fragments. Slight odour noted.	
				1.8			Becoming saturated from 1.3 m bgs	
				2.0			Contains numerous glass and ceramic fragments from 1.5 m bgs	
0.7		BH05_2.3-2.4	*	2.2		ML	Sandy SILT. Brown with black mottling, saturated. Strong sulphuric odour noted.	2.30
				2.4				2.50
0.4		BH05_2.7-2.8		2.6		SM	Silty SAND. Light grey with black mottling. Strong sulphuric odour noted.	
				2.8			Becoming dark grey from 2.7 m bgs. Increase in Silt content and strong sulphuric odour noted.	
0.7		BH05_3.0-3.1		3.0		ML	Sandy SILT. Dark grey, fine grained, saturated. Contains high silt content and minor organic fibres.	3.00
				3.2				
				3.4				3.50
0.5		BH05_3.7-3.8		3.6		SM	Silty SAND. Dark grey/black and light grey, fine to medium grained. Contains numerous shell fragments. Strong hydrogen sulphide odour noted.	
				3.8			Increase in silt content and strong hydrogen sulphide odour noted from 3.7 m bgs	3.90
							Decreasing shell fragments noted from 3.8 m bgs	
							Borehole terminated at 3.9 m bgs; target depth reached	
							Total Depth: 3.90 m	

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# BOREHOLE\_LOG BH06

PROJECT NUMBER 60438840 DATE 21 Aug 15  
 PROJECT NAME Burrows Industrial Estate  
 LOCATION 1-3 Burrows Road, Alexandria NSW  
 DRILLING METHOD Hand Auger / Push-tube / Solid Auger  
 SAMPLING METHOD Hand Auger / Push-tube  
 SURFACE ELEVATION 2.690 m AHD

LOGGED BY K. Pigram NORTHING 6245356.492  
 COMMENTS EASTING 331632.445

PID (ppm)	RECOVERY	SAMPLE NUMBER	ANALYSED	DEPTH (m BGS)	GRAPHIC LOG	USCS CLASS	LITHOLOGIC DESCRIPTION	CONTACT DEPTH
0.2		BH06_1.0-1.1	*	0.2		CONCRETE	Concrete Slab	0.15
				0.4		FILL	Gravelly Sand FILL. Yellow, medium grained. Contains minor sandstone gravels.	0.40
				0.6		FILL	Hand auger refusal at 0.4 m bgs; switch to solid auger.	0.65
				0.8		FILL	Gravel FILL. Light grey/white. Slightly weathered sandstone.	0.65
				1.0		FILL	Switch to push-tube at 0.65 m bgs.	1.10
							Gravelly Sand FILL. Loose to medium dense, dry. Push-tube refusal at 0.8 m bgs; switch to solid augers. Borehole terminated at 1.1 m bgs; refusal with solid augers on concrete - abandon borehole. Total Depth: 1.10 m	

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# BOREHOLE\_LOG BH07

**PROJECT NUMBER** 60438840 **DATE** 20 Aug 15  
**PROJECT NAME** Burrows Industrial Estate  
**LOCATION** 1-3 Burrows Road, Alexandria NSW  
**DRILLING METHOD** Hand Auger / Push-tube / Solid Auger  
**SAMPLING METHOD** Hand Auger / Push-tube  
**SURFACE ELEVATION** 2.560 m AHD  
**LOGGED BY** L. Gibb **NORTHING** 6245440.796  
**COMMENTS** **EASTING** 331577.783

PID (ppm)	RECOVERY	SAMPLE NUMBER	ANALYSED	DEPTH (m BGS)	GRAPHIC LOG	USCS CLASS	LITHOLOGIC DESCRIPTION	CONTACT DEPTH
0.1	X	BH07_0.4-0.5		0.2	ASPHALT CONCRETE FILL		Bitumen Hardstand	0.05
				0.4	CONCRETE FILL		Concrete Slab	0.20
				0.6			Gravelly Sand FILL. Black. Contains brick and sandstone gravels and minor slag gravels.	
							Borehole terminated at 0.68 m bgs; refusal with hand auger - relocate borehole Total Depth: 0.68 m	0.68

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# BOREHOLE\_LOG BH07A

PROJECT NUMBER 60438840 DATE 20 Aug 15  
 PROJECT NAME Burrows Industrial Estate  
 LOCATION 1-3 Burrows Road, Alexandria NSW  
 DRILLING METHOD Hand Auger / Push-tube / Solid Auger  
 SAMPLING METHOD Hand Auger / Push-tube  
 SURFACE ELEVATION 2.560 m AHD

LOGGED BY L. Gibb NORTHING 6245440.796  
 COMMENTS EASTING 331577.783

PID (ppm)	RECOVERY	SAMPLE NUMBER	ANALYSED	DEPTH (m BGS)	GRAPHIC LOG	USCS CLASS	LITHOLOGIC DESCRIPTION	CONTACT DEPTH
0.1	X	BH07A_0.15-0.25		0.2	ASPHALT		Bitumen Hardstand	0.05
				0.4	CONCRETE		Concrete Slab	0.15
0.1	X	BH07A_0.5-0.6	*	0.6	FILL		Silty Gravel FILL. Black, saturated (from concrete coring). Contains slag gravels, weathered brick fragments and plastic.	0.50
					FILL		Silty Sand FILL. Black, coarse grained sand. Contains small slag gravels, rusted metal and glass fragments.	0.70
							Borehole terminated at 0.7 m bgs; hand auger refusal on bricks and concrete - relocate borehole Total Depth: 0.70 m	

60438840\_BORELOGS\_20150826.GPJ 28/9/15

PROJECT NUMBER 60438840 DATE 21 Aug 15  
 PROJECT NAME Burrows Industrial Estate  
 LOCATION 1-3 Burrows Road, Alexandria NSW  
 DRILLING METHOD Hand Auger / Push-tube / Solid Auger  
 SAMPLING METHOD Hand Auger / Push-tube  
 SURFACE ELEVATION 2.560 m AHD

LOGGED BY L. Gibb NORTHING 6245440.796  
 COMMENTS EASTING 331577.783

PID (ppm)	RECOVERY	SAMPLE NUMBER	ANALYSED	DEPTH (m BGS)	GRAPHIC LOG	USCS CLASS	LITHOLOGIC DESCRIPTION	CONTACT DEPTH
0.0		BH07B_0.2-0.3		0.2	ASPHALT		Bitumen Hardstand	0.05
				0.2	CONCRETE		Concrete Slab	0.19
0.1		BH07B_0.5-0.6		0.4	FILL		Gravelly Sand FILL. Dark brown with iron staining, loose to medium dense, slightly moist. Contains grey slag and ironstone gravels. Potential bonded ACM fragment noted.	0.80
0.1		BH07B_0.8-0.9		0.6	FILL		Increase in silt content and decrease in slag gravels from 0.5 m bgs. Contains green degraded fibrous material.	1.00
0.1		BH07B_1.0-1.1		0.8	FILL		Large fragment of red and black slag noted at 0.7 m bgs	1.30
0.9		BH07B_1.2-1.3	*	1.0	FILL		Gravelly Silty FILL. Black, grey and orange, slightly moist. Contains metallic slag gravels (5-10 mm diameter) and pockets of silty clay.	1.80
0.4		BH07B_1.6-1.7		1.2	FILL		Silty Sand FILL. Dark brown, coarse grained, slightly moist. Contains subangular ironstone gravels (<2-5 mm diameter) and fragments of rusted metal. Switch to push-tube at 1.1 m bgs.	2.30
0.4		BH07B_2.3-2.4	*	1.4	FILL		Becoming dark brown/black from 1.1 m bgs. Contains ceramic tile, glass and metal fragments and slag gravels.	2.80
0.3		BH07B_2.8-2.9		1.6	CH		Pockets of black staining noted and becoming moist from 1.2 m bgs. Contains glass, bark, ceramic and shell fragments.	3.00
				2.2	SM		Silty Clay FILL. Orange with black mottling.	
				2.4			Becoming grey with orange mottling and moist to saturated from 1.5 m bgs. Contains minor ironstone gravels. Slight odour noted.	
				2.6			Silty Gravel FILL. Orange/red brown, saturated. Ironstone gravels.	
				2.8			Silty CLAY. Dark grey, medium stiff, high plasticity, saturated. Hydrogen sulphide odour.	
				3.0			Becoming soft with high plasticity from 2.6 m bgs. Increase in grey sand content.	
							Sandy SILT. Dark grey, medium dense, saturated. Hydrogen sulphide odour.	
							Borehole terminated at 3.0 m bgs; target depth reached Total Depth: 3.00 m	



PROJECT NUMBER 60438840 DATE 20 Aug 15  
 PROJECT NAME Burrows Industrial Estate  
 LOCATION 1-3 Burrows Road, Alexandria NSW  
 DRILLING METHOD Hand Auger / Push-tube / Solid Auger  
 SAMPLING METHOD Hand Auger / Push-tube  
 SURFACE ELEVATION 2.600 m AHD

LOGGED BY L. Gibb NORTHING 6245424.019  
 COMMENTS EASTING 331611.759

PID (ppm)	RECOVERY	SAMPLE NUMBER	ANALYSED	DEPTH (m BGS)	GRAPHIC LOG	USCS CLASS	LITHOLOGIC DESCRIPTION	CONTACT DEPTH
0.5		BH08_0.17-0.18	*	0.2	ASPHALT		Bitumen Hardstand	0.02
				0.2	CONCRETE		Concrete Slab	0.14
0.2		BH08_0.5-0.6		0.4	FILL		Gravelly Sand FILL. Black with orange/yellow mottling, medium to coarse grained. Contains sandstone and ironstone gravels (2-5 mm diameter).	0.40
0.2		BH08_1.0-1.1	*	0.6	FILL		Silty Sand FILL. Light brown, medium to coarse grained sand. Contains sandstone gravels (5-10 mm diameter) and minor silt.	1.00
				0.8	FILL		Increase in sandstone and ironstone gravel content and large slag gravels noted from 0.7 m bgs.	
				1.0	FILL		Scrap aluminium metal noted from 0.9 m bgs	
				1.2	FILL		Gravelly Sand FILL. Black with orange mottling, coarse grained. Contains rusted metal fragments, subangular sandstone and slag gravels (5-10 mm diameter).	
				1.4	FILL		Switch to push-tube from 1.2 m bgs - no recovery in push-tube from 1.2 to 2.2 m bgs	
				1.6	FILL			
				1.8	FILL			
				2.0	FILL			
				2.2	FILL			2.20
0.3		BH08_2.5-2.6	*	2.4	FILL		Gravelly Sand FILL. Black, saturated. Contains large slag gravels.	
				2.6	FILL			
				2.8	FILL			
				3.0	SM		Silty SAND. Black/dark grey, fine to medium grained, saturated. Strong sulphuric odour.	2.70
				3.2	SM			
				3.4	SM			
				3.6	SM			
0.5		BH08_3.7-3.8	*	3.8	SM		Becoming dark grey with brown mottling from 3.7 m bgs. Increase in silt content noted.	
				4.0	SM			
1.9		BH08_4.0-4.2		4.2	CH		Silty CLAY. Dark grey, medium stiff, saturated, high plasticity. Strong sulphuric odour noted.	4.00
				4.4	CH		Increase in sand content noted from 4.3 m bgs. Contains minor shell fragments.	
4.1		BH08_4.4-4.5		4.6	CH		Strong sulphuric odour noted.	
				4.8	CH		No recovery in push-tube from 4.5 to 5.1 m bgs	
				5.0	CH			
				5.1			Borehole terminated at 5.1 m bgs; target depth reached Total Depth: 5.10 m	5.10

60438840\_BORELOGS\_20150826.GPJ 28/9/15



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# BOREHOLE\_LOG BH09

PROJECT NUMBER 60438840 DATE 21 Aug 15  
PROJECT NAME Burrows Industrial Estate  
LOCATION 1-3 Burrows Road, Alexandria NSW  
DRILLING METHOD Hand Auger / Push-tube / Solid Auger  
SAMPLING METHOD Hand Auger / Push-tube  
SURFACE ELEVATION 3.040 m AHD

LOGGED BY L. Gibb & K. Pigram NORTHING 6245404.251  
COMMENTS EASTING 331640.584

PID (ppm)	RECOVERY	SAMPLE NUMBER	ANALYSED	DEPTH (m BGS)	GRAPHIC LOG	USCS CLASS	LITHOLOGIC DESCRIPTION	CONTACT DEPTH
0.1		BH09_0.15-0.25	*	0.2		CONCRETE	Concrete Slab	0.14
0.2		BH09_0.25-0.35	*	0.2		FILL	Gravelly Sand FILL. Yellow, medium grained. Contains minor sandstone gravels. Becoming pink, medium to coarse grained from 0.25 m bgs. Increase in sub-rounded sandstone gravel content. Becoming black/dark brown from 0.4 m bgs. Contains brick fragments and sandstone gravels.	0.50
0.1		BH09_0.4-0.5	*	0.4		FILL		
				0.6			Hand auger refusal at 0.5 m bgs on Sandstone. Switch to Solid Auger on Geoprobe.	
				0.8				
				1.0				
				1.2				
0.1		BH09_1.5-1.6	*	1.4			Gravelly Sand FILL. Brown with light orange/brown and white sandstone gravels, dry dense.	
				1.6				
				1.8				
				2.0			Band of crushed concrete noted from 2.0 to 2.2 m bgs	
0.5		BH09_2.2-2.3	*	2.2			Becoming dark brown with red/brown, dry to slightly moist. Contains sandstone and ironstone gravels, minor silt and black ash.	
				2.4				
				2.6				
				2.8				
0.4		BH09_3.0-3.1	*	3.0			Becoming dark brown/black, moist to saturated from 2.7 m bgs. Contains sandstone and ironstone gravels and slag gravels (<10 mm diameter). Becoming green/brown from 3.0 to 3.1 m bgs. Sample collected	
				3.2				
				3.4				
				3.6				
				3.8				
0.4		BH09_4.0-4.2	*	4.0				
139.8		BH09_4.2-4.3	*	4.2		SC	Clayey SAND. Grey/brown, medium dense, saturated. Minor medium stiff, low to medium plasticity clay (20%). Moderate hydrogen sulphide odour.	4.20
390.1		BH09_4.5-4.6	*	4.4		CL	Sandy CLAY. Dark grey/brown, saturated. Contains minor shell fragments. Sand content decreasing with depth. Moderate to strong hydrogen sulphide odour.	4.50
				4.6				
				4.8				
				5.0				
				5.2				
				5.3			Borehole terminated at 5.3 m bgs; target depth reached Total Depth: 5.30 m	5.30

60438840\_BORELOGS\_20150826.GPJ 28/9/15



AECOM Australia Pty Ltd  
Level 21, 420 George Street  
Sydney NSW 2000

# BOREHOLE\_LOG BH10

PROJECT NUMBER 60438840 DATE 21 Aug 15  
 PROJECT NAME Burrows Industrial Estate  
 LOCATION 1-3 Burrows Road, Alexandria NSW  
 DRILLING METHOD Hand Auger / Push-tube / Solid Auger  
 SAMPLING METHOD Hand Auger / Push-tube  
 SURFACE ELEVATION 2.910 m AHD

LOGGED BY L. Gibb & K. Pigram NORTHING 6245375.677  
 COMMENTS EASTING 331665.802

PID (ppm)	RECOVERY	SAMPLE NUMBER	ANALYSED	DEPTH (m BGS)	GRAPHIC LOG	USCS CLASS	LITHOLOGIC DESCRIPTION	CONTACT DEPTH
0.1	X	BH10_0.15-0.25	*	0.2	CONCRETE	CONCRETE	Concrete Slab	0.15
0.2		BH10_0.4-0.5		0.4	FILL	FILL	Gravelly Sand FILL. Yellow, medium grained. Contains minor sandstone gravels.	
0.1	█	BH10_1.0-1.1		0.6			Becoming pink/brown, medium to coarse grained from 0.4 m bgs. Increase in well rounded sandstone gravel content.	
				0.8			Hand auger refusal at 0.55 m bgs on Sandstone; switch to Solid Augers on Geoprobe	
				1.0			Becoming light grey, brown, black, orange, medium dense, dry to slightly moist.	
				1.2			Contains ash, concrete, ironstone and slag gravels (40%), sand (60%).	
				1.4				
				1.6				
0.2		BH10_2.1-2.2		2.0	FILL	FILL	Clayey Gravelly Sand FILL. Brown and dark grey/brown, medium dense, moist to saturated. Contains sand (40%), slag gravels (40%) and soft low plasticity clay (20%).	2.10
0.4		BH10_3.0-3.1		2.2			Clay content increasing with depth; approx. 30% from 3.0 m bgs	
				2.4				
				2.6				
				2.8				
				3.0				
				3.2				
				3.4				
				3.6				
				3.8				
20.1		BH10_4.0-4.1	*	4.0	SC	SC	Clayey SAND. Dark brown, medium dense, saturated. Contains sand (70%) and clay (30%).	3.90
				4.2				
				4.4				
				4.6	CL	CL	Sandy CLAY. Dark brown, medium stiff, saturated, medium plasticity. Contains clay (60%) and sand (40%). Slight hydrogen sulphide odour.	4.50
				4.8				
				5.0				
							Borehole terminated at 5.1 m bgs; target depth reached Total Depth: 5.10 m	5.10

60438840\_BORELOGS\_20150826.GPJ 28/9/15



AECOM Australia Pty Ltd  
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Sydney NSW 2000

# BOREHOLE\_LOG BH11

PROJECT NUMBER 60438840 DATE 20 Aug 15  
 PROJECT NAME Burrows Industrial Estate  
 LOCATION 1-3 Burrows Road, Alexandria NSW  
 DRILLING METHOD Hand Auger / Push-tube / Solid Auger  
 SAMPLING METHOD Hand Auger / Push-tube  
 SURFACE ELEVATION 3.120 m AHD

LOGGED BY L. Gibb NORTHING 6245465.678  
 COMMENTS EASTING 331605.73

PID (ppm)	RECOVERY	SAMPLE NUMBER	ANALYSED	DEPTH (m BGS)	GRAPHIC LOG	USCS CLASS	LITHOLOGIC DESCRIPTION	CONTACT DEPTH
0.1		BH11_0.2-0.3	*	0.2	ASPHALT		Bitumen Hardstand	0.05
				0.2	CONCRETE		Concrete Slab	0.20
0.1		BH11_0.5-0.6		0.4	FILL		Gravelly Sand FILL. Dark brown/black, coarse grained, dry. Contains ash. Contains pockets of black silt, ash and glass fragments from 0.6 m bgs	
				0.6				
				0.8				
0.1		BH11_1.0-1.1		1.0	FILL		Sandy Clay FILL. White/red/brown mottled, stiff, high plasticity.	0.90
				1.2				
				1.4				
				1.6				
				1.8				
0.1		BH11_2.0-2.1		2.0	FILL		Sandy Silt FILL. Black. Contains ceramic and glass fragments.	2.00
				2.10				2.10
0.8		BH11_2.3-2.4	*	2.2	FILL		Gravelly Sand FILL. Light yellow, dense. Contains sandstone and vesicular slag gravels.	2.20
				2.4	FILL			
				2.6	FILL		Silty Gravel FILL. Black with orange mottling. Contains slag and ironstone gravels. Becoming red/brown from 2.5 m bgs. Decreased slag gravel content. Becoming saturated from 2.6 m bgs	
				2.8				
				3.0			Becoming dark grey from 3.0 m bgs	
0.5		BH11_3.0-3.1		3.0				
				3.2				
0.5		BH11_3.3-3.4	*	3.2		ML	Sandy SILT. Black, dense. Hydrogen sulphide and hydrocarbon odour noted.	3.30
				3.4				
0.4		BH11_3.6-3.7		3.6				
				3.8				
				3.9			Borehole terminated at 3.9 m bgs; target depth reached Total Depth: 3.90 m	3.90

60438840\_BORELOGS\_20150826.GPJ 28/9/15



AECOM Australia Pty Ltd  
Level 21, 420 George Street  
Sydney NSW 2000

# BOREHOLE\_LOG BH12

PROJECT NUMBER 60438840 DATE 21 Aug 15  
 PROJECT NAME Burrows Industrial Estate  
 LOCATION 1-3 Burrows Road, Alexandria NSW  
 DRILLING METHOD Hand Auger / Push-tube / Solid Auger  
 SAMPLING METHOD Hand Auger / Push-tube  
 SURFACE ELEVATION 3.620 m AHD

LOGGED BY L. Gibb NORTHING 6245472.364  
 COMMENTS EASTING 331645.559

PID (ppm)	RECOVERY	SAMPLE NUMBER	ANALYSED	DEPTH (m BGS)	GRAPHIC LOG	USCS CLASS	LITHOLOGIC DESCRIPTION	CONTACT DEPTH
0.1		BH12_0.15-0.25	*	0.2	ASPHALT		Bitumen Hardstand	0.03
				0.2	CONCRETE		Concrete Slab	0.14
0.1		BH12_0.5-0.6		0.4	FILL		Gravelly Sand FILL. Black and white, coarse grained. Contains ash, slag (<5 mm diameter) and well rounded sandstone gravels, glass fragments.	0.50
0.1		BH12_0.6-0.7		0.6	FILL		Silty Sand FILL. Black, slightly moist. Contains minor slag and ash gravels.	0.60
				0.8	FILL		Sandy Clay FILL. Yellow with grey mottling, slightly moist, high plasticity. Contains ceramic and glass fragments.	1.00
0.1		BH12_1.0-1.1	*	1.0	FILL		Silty Sand FILL. Black with red mottling and yellow pockets, coarse grained sand. Contains ironstone and slag gravels, rusted metal and glass fragments.	1.80
0.1		BH12_1.5-1.6		1.2	FILL		Becoming grey and white from 1.5 m bgs. Contains ash and vesicular slag gravels.	
0.4		BH12_1.8-1.9	*	1.8	FILL		Gravelly Sand FILL. Brown, coarse grained. Contains slag gravels and organic fibres.	1.80
				2.0			No recovery in push-tube from 2.0 to 2.8 m bgs	
				2.2				
				2.4				
				2.6				
				2.8				
				3.0	FILL		Silty Gravel FILL. Black. Contains coarse grained sand, concrete cobbles and sandstone gravels.	2.80
0.2		BH12_3.2-3.3		3.2			Becoming red/brown and saturated from 3.0 m bgs. Contains ceramic fragments, weathered brick fragments and slag gravels.	
				3.4				
3.5		BH12_3.6-3.7	*	3.6			Black staining and slight odour noted from 3.6 m bgs.	3.70
0.3		BH12_3.7-3.8		3.8		SM	Silty SAND. Light grey and dark grey. Hydrogen sulphide odour noted.	4.00
				4.0			Borehole terminated at 4.0 m bgs; target depth reached Total Depth: 4.00 m	

60438840\_BORELOGS\_20150826.GPJ 28/9/15



AECOM Australia Pty Ltd  
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Sydney NSW 2000

# BOREHOLE\_LOG BH13

PROJECT NUMBER 60438840 DATE 20 Aug 15  
 PROJECT NAME Burrows Industrial Estate  
 LOCATION 1-3 Burrows Road, Alexandria NSW  
 DRILLING METHOD Hand Auger / Push-tube / Solid Auger  
 SAMPLING METHOD Hand Auger / Push-tube  
 SURFACE ELEVATION 2.960 m AHD

LOGGED BY L. Gibb NORTHING 6245442.06  
 COMMENTS EASTING 331634.823

PID (ppm)	RECOVERY	SAMPLE NUMBER	ANALYSED	DEPTH (m BGS)	GRAPHIC LOG	USCS CLASS	LITHOLOGIC DESCRIPTION	CONTACT DEPTH
				0.2		CONCRETE	Concrete Slab	0.17
0.1	X	BH13_0.2-0.3	*	0.2		FILL	Gravelly Sand FILL. Dark brown/black, coarse grained. Contains sandstone and ironstone gravels and glass fragments.	
0.1	X	BH13_0.4-0.5	*	0.4		FILL	Becoming orange and brown mottled from 0.4 m bgs. Increased in ironstone gravels. Contains slag gravels and minor ceramic fragments.	
0.1	X	BH13_0.6-0.7	*	0.6		FILL	Becoming light grey and white, coarse grained from 0.6 m bgs. Contains sandstone gravels and glass fragments.	
0.1	X	BH13_1.0-1.1	*	1.0		FILL	Increase in ironstone gravel content from 1.0 m bgs. Contains rusted metal fragments and numerous glass fragments.	
				1.2		FILL	Switch to push-tube at 1.2 m bgs	
0.2		BH13_1.5-1.6		1.4		FILL	Sandy Gravel FILL. Moist. Contains slag, sandstone and ironstone gravels.	1.50
				1.6		FILL	Becoming red/brown and saturated from 1.8 m bgs. Contains silt and fragments of crushed shells.	
				1.8		FILL		
				2.0		FILL		
				2.2		FILL		
				2.4		FILL		
				2.6		FILL		
0.2		BH13_2.7-2.8		2.8		ML	Becoming black from 2.7 m bgs	2.80
				3.0		ML	Sandy SILT. Black, dense. Organic odour.	3.00
0.3		BH13_3.0-3.1		3.0		SM	Silty SAND. Black and grey, medium grained, dense. Hydrogen sulphide odour.	3.00
				3.2		SM		
				3.4		SM		
6.6		BH13_3.6-3.7	*	3.6		SM	Increase in sand content noted from 3.6 m bgs	
				3.8		SM		
				3.9		SM	Borehole terminated at 3.9 m bgs; target depth reached Total Depth: 3.90 m	3.90

60438840\_BORELOGS\_20150826.GPJ 28/9/15





AECOM Australia Pty Ltd  
Level 21, 420 George Street  
Sydney NSW 2000

# BOREHOLE\_LOG BH14

PROJECT NUMBER 60438840 DATE 21 Aug 15  
 PROJECT NAME Burrows Industrial Estate  
 LOCATION 1-3 Burrows Road, Alexandria NSW  
 DRILLING METHOD Hand Auger / Push-tube / Solid Auger  
 SAMPLING METHOD Hand Auger / Push-tube  
 SURFACE ELEVATION 2.930 m AHD

LOGGED BY K. Pigram NORTHING 6245419.946  
 COMMENTS EASTING 331653.883

PID (ppm)	RECOVERY	SAMPLE NUMBER	ANALYSED	DEPTH (m BGS)	GRAPHIC LOG	USCS CLASS	LITHOLOGIC DESCRIPTION	CONTACT DEPTH
				0.2		CONCRETE	Concrete Slab	0.19
				0.3		FILL	Gravel FILL. Roadbase, medium dense.	0.30
				0.4		CONCRETE	Concrete Slab	0.44
		BH14_0.45-0.55	*	0.6		FILL	Gravelly Sand FILL. Dark brown, medium dense, dry to slightly moist. Roadbase gravels (30%), sand (60%) and minor silt (10%).	
2.5		BH14_1.0-1.1		0.8			Hand auger refusal at 0.6 m bgs on sandstone gravel (possible boulder/floater); switch to solid augers.	
				1.0			Contains ash, glass, slag (10%) gravels. Contains ironstone and sandstone gravels and minor roadbase gravels from 1.0 m bgs.	
				1.2				
				1.4				
				1.6				1.50
0.6		BH14_1.8-1.9	*	1.8		FILL	Sandy Gravel FILL. Brown/orange/grey, medium dense, moist to saturated. Contains sand (15-20%), slag gravels (80%) and trace clay (<10%).	
				2.0			Water level measured within borehole with tape measure at 2.0 m bgs.	
				2.2				
				2.4				
				2.6				
				2.8			Sand increasing with depth from 2.7 m bgs	
0.2		BH14_3.0-3.1		3.0				
				3.2				
				3.4				
				3.6				
				3.8				3.80
150.1		BH14_4.0-4.1	*	4.0		CL	Sandy CLAY. Dark grey/brown, medium stiff, saturated, low to medium plasticity. Contains sand (30%) and clay (70%). Clay increasing with depth. Moderate hydrogen sulphide odour.	
				4.2				
				4.4				
				4.6			Clay becoming medium stiff and medium to high plasticity from 4.5 m bgs.	
				4.8				
				5.0				
				5.1			Borehole terminated at 5.1 m bgs; target depth reached Total Depth: 5.10 m	5.10



60438840\_BORELOGS\_20150826.GPJ 28/9/15



AECOM Australia Pty Ltd  
Level 21, 420 George Street  
Sydney NSW 2000

# BOREHOLE\_LOG BH15

PROJECT NUMBER 60438840 DATE 21 Aug 15  
 PROJECT NAME Burrows Industrial Estate  
 LOCATION 1-3 Burrows Road, Alexandria NSW  
 DRILLING METHOD Hand Auger / Push-tube / Solid Auger  
 SAMPLING METHOD Hand Auger / Push-tube  
 SURFACE ELEVATION 2.700 m AHD  
 LOGGED BY K. Pigram NORTHING 6245398.482  
 COMMENTS EASTING 331674.617

PID (ppm)	RECOVERY	SAMPLE NUMBER	ANALYSED	DEPTH (m BGS)	GRAPHIC LOG	USCS CLASS	LITHOLOGIC DESCRIPTION	CONTACT DEPTH
0.1	☒	BH15_0.4-0.5	*	0.2 0.4	 CONCRETE  FILL	CONCRETE FILL	Concrete Slab Gravel FILL. Roadbase, medium dense, dry. Contains minor sand and minor low plasticity clay. Refusal at 0.5 m bgs with hand auger on concrete (possible second slab); switch to solid auger. Refusal at 0.5 m bgs with solid auger; abandon borehole. Total Depth: 0.50 m	0.22 0.50

60438840\_BORELOGS\_20150826.GPJ 28/9/15

<b>PROJECT NUMBER</b>	60438840	<b>DATE</b>	21 & 22 August 2015
<b>PROJECT NAME</b>	Burrows Industrial Estate	<b>BLANK</b>	0.0 to 1.441 m bgs
<b>LOCATION</b>	1-3 Burrows Road, Alexandria NSW	<b>SCREEN</b>	1.441 to 4.441 m bgs
<b>DRILLING METHOD</b>	Hand Auger / Push-tube / Solid Auger	<b>GRAVEL PACK</b>	0.95 to 4.441 m bgs
<b>SAMPLING METHOD</b>	Hand Auger / Push-tube	<b>SANITARY SEAL/BENTONITE</b>	0.45 to 0.95 m bgs
<b>SURFACE ELEVATION</b>	4.230 m AHD	<b>STABILISED WATER LEVEL</b>	3.171 m BTOC
<b>WELL HEAD/TOC</b>	4.15 m AHD	<b>GROUND WATER ELEVATION</b>	0.979 m AHD
<b>LOGGED BY</b>	L. Gibb & K. Pigram	<b>NORTHING</b>	6245470.9
<b>COMMENTS</b>		<b>EASTING</b>	331688.598

PID (ppm)	RECOVERY	SAMPLE NUMBER	ANALYSED	DEPTH (m BGS)	GRAPHIC LOG	USCS CLASS	LITHOLOGIC DESCRIPTION	CONTACT DEPTH	WELL DIAGRAM
				0.2	CONCRETE		Concrete Slab	0.17	
0.0		BH16_0.5-0.6		0.4	FILL		Sandy Gravel FILL. Yellow and dark grey, coarse grained sand. Contains sandstone cobbles, brick fragments and ceramic tile fragments.		
0.0		BH16_0.7-0.8	*	0.6			Becoming black and orange from 0.7 m bgs. Contains slag gravels, ash, brick fragments, subrounded sandstone gravels and glass fragments.		
0.0		BH16_1.0-1.1		1.0			Dark brown with red iron staining from 1.0 m bgs. Contains slag and ironstone gravels.		
				1.2	FILL		Switch to push-tube on Geoprobe from 1.2 m bgs. Completed 22 August 2015.		
0.9		BH16_2.0-2.1	*	2.0			Gravelly Sand FILL. Dark brown, dense, slightly moist to moist. Contains minor medium stiff, low plasticity clay, ironstone, roadbase and slag gravels, glass and metal (nails, pins and sheet metal) fragments.		
4.3		BH16_3.0-3.1	*	3.0			Becoming dark grey/brown and moist to saturated from 3.0 m bgs.		
2.1		BH16_4.0-4.1		4.0	FILL		Clayey Gravelly Sand FILL. Dark grey/brown to black. Contains medium stiff, low to medium plasticity (20%). Slight hydrogen sulphide odour and possible hydrocarbon odour.		
				4.6	SW		SAND. Grey/brown, medium dense, saturated, well sorted.		
3.1		BH16_5.0-5.1		5.0			Borehole terminated at 5.1 m bgs; target depth reached Total Depth: 5.10 m	5.10	

60438840\_BORELOGS\_20150826.GPJ 28/9/15

<b>PROJECT NUMBER</b>	60438840	<b>DATE</b>	21 & 22 August 2015
<b>PROJECT NAME</b>	Burrows Industrial Estate	<b>BLANK</b>	0.0 to 1.091 m bgs
<b>LOCATION</b>	1-3 Burrows Road, Alexandria NSW	<b>SCREEN</b>	1.091 to 4.091 m bgs
<b>DRILLING METHOD</b>	Hand Auger / Push-tube / Solid Auger	<b>GRAVEL PACK</b>	0.6 to 4.091 m bgs
<b>SAMPLING METHOD</b>	Hand Auger / Push-tube	<b>SANITARY SEAL/BENTONITE</b>	0.1 to 0.6 m bgs
<b>SURFACE ELEVATION</b>	4.130 m AHD	<b>STABILISED WATER LEVEL</b>	3.061 m BTOC
<b>WELL HEAD/TOC</b>	4.04 m AHD	<b>GROUND WATER ELEVATION</b>	0.979 m AHD
<b>LOGGED BY</b>	L. Gibb & K. Pigram	<b>NORTHING</b>	6245465.954
<b>COMMENTS</b>		<b>EASTING</b>	331700.452

PID (ppm)	RECOVERY	SAMPLE NUMBER	ANALYSED	DEPTH (m BGS)	GRAPHIC LOG	USCS CLASS	LITHOLOGIC DESCRIPTION	CONTACT DEPTH	WELL DIAGRAM
0.0		BH17_0.2-0.3		0.2	CONCRETE		Concrete Slab	0.19	Cement Grout
0.2		BH17_0.7-0.8		0.4	FILL		Silty Sand FILL. Light yellow with black mottling. Contains sandstone and slag gravels, minor ash gravel content.	0.40	Bentonite
0.1		BH17_1.0-1.1	*	0.6	FILL		Gravelly Sand FILL. Yellow/orange, medium to coarse grained. Contains subangular sandstone gravels (5 mm).	1.10	Casing
				0.8	FILL		Becoming red/brown with black mottling from 0.7 m bgs. Contains sandstone gravels, minor slag gravels and rusted metal fragments.	1.20	
15.2		BH17_2.0-2.1	*	1.0	FILL		Becoming red and grey mottled and coarse grained from 1.0 m bgs. Increase in grey slag and ash gravel content. Contains weathered brick fragments		
				1.2	FILL		Silty Sand FILL. Brown mottled with black staining, dense.		
				1.4			Switch to push-tube on Geoprobe from 1.2 m bgs. Completed 22 August 2015.		
				1.6					
				1.8					
				2.0					
				2.2					
				2.4					
				2.6					
				2.8					
				3.0			Sandy Gravel FILL. Dark grey/brown, medium dense to dense, slightly moist to moist. Contains slag, sandstone, ironstone and concrete gravels, minor silt and metal fragments. Slight hydrocarbon odour.		
				3.2			No push-tube recovery from 2.7 to 5.1 m bgs, possible voids or obstructions to push-tube.		
				3.4					
				3.6					
				3.8					
				4.0			Monitoring well installed according to rationale at BH16 / MW16.		
				4.2			Water level measured in borehole with tape measure; encountered at 3.2 m bgs		
				4.4					
				4.6					
				4.8					
				5.0					
							Borehole terminated at 5.1 m bgs. Total Depth: 5.10 m	5.10	Cave-in

60438840\_BORELOGS\_20150826.GPJ 28/9/15



AECOM Australia Pty Ltd  
Level 21, 420 George Street  
Sydney NSW 2000

# BOREHOLE\_LOG BH18

PROJECT NUMBER 60438840 DATE 29 Aug 15  
 PROJECT NAME Burrows Industrial Estate  
 LOCATION 1-3 Burrows Road, Alexandria NSW  
 DRILLING METHOD Hand Auger / Push-tube / Solid Auger  
 SAMPLING METHOD Hand Auger / Push-tube  
 SURFACE ELEVATION 3.420 m AHD

LOGGED BY K. Pigram NORTHING 6245485.266  
 COMMENTS EASTING 331741.891

PID (ppm)	RECOVERY	SAMPLE NUMBER	ANALYSED	DEPTH (m BGS)	GRAPHIC LOG	USCS CLASS	LITHOLOGIC DESCRIPTION	CONTACT DEPTH
				0.2		CONCRETE	Concrete Slab	0.21
0.0	X	BH18_0.25-0.35		0.4		FILL	Gravelly Silty Sand FILL. Dark brown, loose to medium dense, dry to slightly moist. Contains silt (40%), sand (50%) and concrete and ironstone gravels (20%, <10 mm diameter).	
0.0	X	BH18_0.7-0.8	*	0.6		FILL	Contains brick/concrete fragments (approx 10 cm diameter) and half bricks, pieces of sheet metal from 0.5 m bgs	0.90
0.1	X	BH18_1.0-1.1		1.0		FILL	Becoming red/brown from 0.7 m bgs.	
				1.2		FILL	Silty Sand FILL. Dark brown/black, loose, dry to slightly moist. Contains minor brick fragments and gravels.	1.40
				1.4		FILL	Switch to push-tube at 1.2 m bgs	
				1.6		FILL	Sandy Gravel FILL. Red/brown, yellow, black, medium dense, slightly moist. Contains ironstone and sandstone gravels (60%).	
0.2		BH18_2.0-2.1	*	2.0		FILL		
				2.2		FILL		
				2.4		FILL		
				2.6		FILL		
				2.8		FILL		
				3.0		FILL	Becoming dark grey/brown and saturated from 3.0 m bgs.	
		BH18_3.0-3.1		3.2		SW	SAND. Grey/brown, fine to medium grained, medium dense, saturated.	3.20
				3.4		SW		
				3.6		SW		
		BH18_3.8-3.9		3.8		SW		
				3.9			Borehole terminated at 3.9 m bgs; target depth reached Total Depth: 3.90 m	3.90

60438840\_BORELOGS\_20150826.GPJ 28/9/15

<b>PROJECT NUMBER</b>	60438840	<b>DATE</b>	21 & 22 August 2015
<b>PROJECT NAME</b>	Burrows Industrial Estate	<b>BLANK</b>	0.0 to 0.92 m bgs
<b>LOCATION</b>	1-3 Burrows Road, Alexandria NSW	<b>SCREEN</b>	0.92 to 3.92 m bgs
<b>DRILLING METHOD</b>	Hand Auger / Push-tube / Solid Auger	<b>GRAVEL PACK</b>	0.5 to 3.92 m bgs
<b>SAMPLING METHOD</b>	Hand Auger / Push-tube	<b>SANITARY SEAL/BENTONITE</b>	0.1 to 0.5 m bgs
<b>SURFACE ELEVATION</b>	3.510 m AHD	<b>STABILISED WATER LEVEL</b>	2.464 m BTOC
<b>WELL HEAD/TOC</b>	3.44 m AHD	<b>GROUND WATER ELEVATION</b>	0.976 m AHD
<b>LOGGED BY</b>	L. Gibb & K. Pigram	<b>NORTHING</b>	6245525.412
<b>COMMENTS</b>		<b>EASTING</b>	331743.935

PID (ppm)	RECOVERY	SAMPLE NUMBER	ANALYSED	DEPTH (m BGS)	GRAPHIC LOG	USCS CLASS	LITHOLOGIC DESCRIPTION	CONTACT DEPTH	WELL DIAGRAM
0.2		BH19_0.11-0.15		0.2	ASPHALT		Bitumen Hardstand	0.11	<p>Cement Grout</p> <p>Bentonite</p> <p>Casing</p> <p>Slotted Screen</p> <p>Graded Sand</p>
0.4		BH19_0.25-0.30		0.4	FILL		Silty Gravel FILL. Light grey, moist. Contains roadbase (blue metal) gravels.	0.30	
0.1		BH19_0.6-0.7		0.6	FILL		Becoming black from 0.25 m bgs. Contains brick and glass fragments and slag gravels.	0.60	
1.2		BH19_1.0-1.1		1.0	FILL		Hand Auger refusal at 0.3 m bgs, switch to Solid Auger on Geoprobe. Completed on 22 August 2015	1.00	
0.6		BH19_1.4-1.5		1.4	FILL		Gravel FILL. Roadbase gravels with metal fragments.	1.50	
1.9		BH19_2.0-2.2	*	2.0	FILL		Gravelly Sand FILL. Dark brown, fine to medium grained, loose, dry. Contains minor silt, brick and roadbase gravels (20%) and sand (70%).	2.00	
				2.2	FILL		Becoming light grey/brown from 0.7 m bgs.	2.20	
				2.4	FILL		Hand auger refusal at 0.85 m bgs, possible concrete floater, switch to solid auger.	2.40	
				2.6	FILL		Sandy Clay FILL. Brown, loose, dry. Contains concrete and sandstone gravels (10%) and minor orange ironstone gravels.	2.60	
0.5		BH19_3.0-3.1		3.0	FILL		Switch to push-tube from 1.1 m bgs.	2.90	
				3.2	SW		Gravelly Sand FILL. Orange/brown, medium to coarse grained, loose to medium dense, slightly moist to moist. Contains ironstone and slag gravels (50%) and sand (50%).	3.20	
1.2		BH19_3.8-3.9		3.8			Water level measured in borehole with tape measure - encountered at 2.5 m bgs	3.90	
							Sand FILL. Possible reworked natural. Dark grey brown/black, saturated. Slight hydrogen sulphide odour.		
							SAND. Light grey/brown, medium dense, saturated. Contains organic matter.		
							Borehole terminated at 3.9 m bgs; target depth reached. Total Depth: 3.90 m		





AECOM Australia Pty Ltd  
Level 21, 420 George Street  
Sydney NSW 2000

# BOREHOLE\_LOG BH20

PROJECT NUMBER 60438840 DATE 29 Aug 15  
 PROJECT NAME Burrows Industrial Estate  
 LOCATION 1-3 Burrows Road, Alexandria NSW  
 DRILLING METHOD Hand Auger / Push-tube / Solid Auger  
 SAMPLING METHOD Hand Auger / Push-tube  
 SURFACE ELEVATION 3.240 m AHD

LOGGED BY K. Pigram NORTHING 6245507.731  
 COMMENTS EASTING 331767.618

PID (ppm)	RECOVERY	SAMPLE NUMBER	ANALYSED	DEPTH (m BGS)	GRAPHIC LOG	USCS CLASS	LITHOLOGIC DESCRIPTION	CONTACT DEPTH
				0.2		CONCRETE	Concrete Slab	0.20
0.2		BH20_0.5-0.6	*	0.2 - 0.4		FILL	Gravel FILL. Roasbase, dark grey/brown, dense, dry to slightly moist. Contains minor medium stiff, low plasticity clay.	0.40
0.4		BH20_1.0-1.1	*	0.4 - 1.0		FILL	Gravelly Sand FILL. Brown, loose, slightly moist. Contains medium grained sand and subangular roadbase gravels (20%, <10 mm diameter). Becoming dark grey/brown and slightly moist from 0.8 m bgs. Contains concrete and terracotta gravels (<1 mm diameter).	1.00
0.4		BH20_2.0-2.1	*	1.0 - 2.0		FILL	Gravels - sandstone and slag (<10 mm diameter), content increasing to 30% from 0.9 m bgs. Hand auger refusal at 0.95 m bgs; switch to push-tube. Sandy Gravel FILL. Red/brown, black, brown, dense, slightly moist. Contains slag and sandstone gravels.	
0.3		BH20_3.5-3.6	*	2.0 - 3.4		SW	Becoming dark grey/brown and saturated from 2.0 m bgs. Contains slag gravels (80%).	3.40
				3.4 - 3.9			SAND. Grey/brown, loose to medium dense, saturated. Contains organic matter and trace medium stiff low plasticity clay.	3.90
				3.9			Borehole terminated at 3.9 m bgs; target depth reached Total Depth: 3.90 m	

60438840\_BORELOGS\_20150826.GPJ 28/9/15

<b>PROJECT NUMBER</b>	60438840	<b>DATE</b>	21 & 22 August 2015
<b>PROJECT NAME</b>	Burrows Industrial Estate	<b>BLANK</b>	0.0 to 0.895 m bgs
<b>LOCATION</b>	1-3 Burrows Road, Alexandria NSW	<b>SCREEN</b>	0.895 to 3.895 m bgs
<b>DRILLING METHOD</b>	Hand Auger / Push-tube / Solid Auger	<b>GRAVEL PACK</b>	0.5 to 3.895 m bgs
<b>SAMPLING METHOD</b>	Hand Auger / Push-tube	<b>SANITARY SEAL/BENTONITE</b>	0.1 to 0.5 m bgs
<b>SURFACE ELEVATION</b>	3.120 m AHD	<b>STABILISED WATER LEVEL</b>	2.024 m BTOC
<b>WELL HEAD/TOC</b>	3.04 m AHD	<b>GROUND WATER ELEVATION</b>	1.016 m AHD
<b>LOGGED BY</b>	L. Gibb & K. Pigram	<b>NORTHING</b>	6245494.973
<b>COMMENTS</b>		<b>EASTING</b>	331791.781

PID (ppm)	RECOVERY	SAMPLE NUMBER	ANALYSED	DEPTH (m BGS)	GRAPHIC LOG	USCS CLASS	LITHOLOGIC DESCRIPTION	CONTACT DEPTH	WELL DIAGRAM
0.2		BH21_0.20-0.25		0.2	CONCRETE		Concrete Slab	0.18	<p>Cement Grout Bentonite Casing Graded Sand Slotted Screen Cave-in</p>
0.1		BH21_0.25-0.35		0.4	FILL	Silty Gravel FILL. Moist. Contains roadbase and blue metal gravels.	0.80		
0.1		BH21_0.7-0.8	*	0.6	FILL	Becoming yellow from 0.25 m bgs. Contains coarse grained sand and small blue metal gravels (<2 mm).	1.20		
0.3		BH21_1.0-1.1		1.0	FILL	Becoming light brown from 0.5 m bgs.			
				1.2	FILL	Black staining and strong chemical odour noted from 0.7 m bgs. Contains sandstone gravels, glass fragments and potential bonded ACM fragment.			
				1.4	FILL				
				1.6	FILL	Sandy Gravel FILL. Yellow with black mottling. Contains sandstone, concrete and brick gravels.			
				1.8	FILL	Black staining and chemical odour noted from 1.0 m bgs.			
				2.0	FILL				
				2.2	FILL	Switch to push-tube on Geoprobe for continuation at 1.2 m bgs - completed on 22 August 2015.			
0.2		BH21_2.7-2.8	*	2.6	FILL	No recovery in push-tube from 1.2 to 2.7 m bgs; metal fragment in base of push-tube blocking recovery, assumed FILL.	2.70		
2.1		BH21_3.0-3.1	*	2.8	SW	Sandy Gravel FILL. Brown, loose to medium dense, saturated. Contains minor soft, low plasticity clay (10%), metal fragments and slag gravels (50%), medium grained sand (40%).	3.00		
1.3		BH21_3.8-3.9		3.2		SAND. Grey/brown, loose to medium dense, saturated. Minor soft, low plasticity clay (10%). Clay content increasing with depth.	3.90		
				3.4					
				3.6					
				3.8					
				3.8			Borehole terminated at 3.9 m bgs; target depth reached Total Depth: 3.90 m		



AECOM Australia Pty Ltd  
Level 21, 420 George Street  
Sydney NSW 2000

# BOREHOLE\_LOG BH22

PROJECT NUMBER 60438840 DATE 21 Aug 15  
 PROJECT NAME Burrows Industrial Estate  
 LOCATION 1-3 Burrows Road, Alexandria NSW  
 DRILLING METHOD Hand Auger / Push-tube / Solid Auger  
 SAMPLING METHOD Hand Auger / Push-tube  
 SURFACE ELEVATION 3.370 m AHD

LOGGED BY K. Pigram NORTHING 6245435.465  
 COMMENTS EASTING 331672.77

PID (ppm)	RECOVERY	SAMPLE NUMBER	ANALYSED	DEPTH (m BGS)	GRAPHIC LOG	USCS CLASS	LITHOLOGIC DESCRIPTION	CONTACT DEPTH
				0.2		CONCRETE	Concrete Slab	0.26
0.1		BH22_0.3-0.4 BH22_0.45	*	0.4		FILL	Gravelly Sand FILL. Red/brown and grey/brown, loose to medium dense, dry. Contains ironstone and roadbase gravels.	0.60
0.1		BH22_0.8-0.9	*	0.6		FILL	Possible ACM fragment collected as bag sample	0.80
				0.8		FILL	Hand auger refusal at 0.6 m bgs; switch to solid auger.	
0.1		BH22_1.3-1.4	*	1.0		FILL	Gravelly Sand FILL. Red/brown and dark grey/brown medium dense, dry. Contains ironstone and roadbase gravels.	1.30
0.1		BH22_1.7-1.8	*	1.2		FILL	Clayey Sand FILL. Dark brown, medium dense, dry to slightly moist. Contains organic matter (possible peat) and slag (<10 mm) pieces.	1.70
				1.4		FILL	Band of ironstone gravel from 1.1 to 1.3 m bgs	
				1.6		FILL	Clay FILL. Light grey, medium plasticity, slightly moist.	
0.1		BH22_2.2-2.3	*	1.8		FILL	Gravelly Sand FILL. Dark brown. Contains sandstone gravels.	2.20
				2.0		FILL	Pocket of low to medium plasticity, saturated clay encountered at 2.1 m bgs.	
				2.2		FILL	Gravel FILL. Slag with minor sand. Grey/brown, saturated.	
				2.4		FILL	Water level measured within borehole with tape measure at 2.4 m bgs.	
				2.6		FILL	Sandstone boulder, dark brown, dense, slight to moderately weathered, saturated encountered at 2.7 m bgs, minimal push-tube recovery.	
				2.8		FILL		
				3.0		FILL		
				3.2		FILL		
				3.4		FILL		
				3.6		FILL		
				3.8		FILL		
0.1		BH22_3.9-4.0	*	4.0		FILL	Gravel FILL. Slag with minor sand. Dark grey/brown, saturated.	3.90
				4.2		FILL		
				4.4		FILL		
26.7		BH22_4.5-4.7	*	4.6		CL	Sandy CLAY. Light grey with dark grey/brown mottling, saturated, low to medium plasticity. Contains sand (30-40%) and clay (60-70%). Moderate hydrogen sulphide odour noted.	4.50
				4.8		CL		
				5.0		CL		
							Borehole terminated at 5.1 m bgs; target depth reached Total Depth: 5.10 m	5.10

60438840\_BORELOGS\_20150826.GPJ 28/9/15

<b>Client:</b> Goodman	<b>Project No:</b> 60623599	<b>Start Date:</b> 03/02/2020
<b>Project:</b> Burrows Industrial Estate (IE)	<b>Logged by:</b> Rebekah Panozzo	<b>End Date:</b> 03/02/2020
<b>Location:</b> 1-3 Burrows Road, Alexandria NSW	<b>Checked by:</b> Alex Latham	<b>Location Meth.:</b> dGPS0.001
<b>Driller:</b> EPOCA	<b>Easting:</b> 331555.408 m	<b>Ground El.:</b> 2.035 mRL
<b>Drill Type:</b> diatube, hand auger, solid stem auger	<b>Northing:</b> 6245391.019 m	<b>Ver. Datum:</b> AHD
<b>Drill Model:</b> Geoprobe 7822DT	<b>Total Depth:</b> 3.5 m	<b>Hor. Proj/Dat:</b> MGA94/GDA94-55H
	<b>Bore Dia.:</b> 165 mm	

Drill Method	Casing	Groundwater Data and Comments	Depth (m)	Graphic Log	Classification	LITHOLOGICAL DESCRIPTION	Moisture	Consistency/Relative Density	Sample Interval	PID (ppm)	Sample ID
DT	None		0			PAVEMENT: BITUMINOUS SEAL bitumen road base	D				
						FILL: SAND brown, fine to medium grain			0.6		BH100_0.15-0.25
HA		Water inflow/seepage at 0.70 m 03/02/2020				FILL: sandy GRAVEL black/grey road base gravels (20-40 mm), sub rounded to sub angular. Sands; brown. Ceramic inclusions (50 mm). Minor clay component.					
						FILL: sandy GRAVEL Ironstone gravels. Sands; brown/grey. Minor clay component, shells (50 mm), fragments of glass and ceramics.	W		0.0		BH100_0.7-0.8
						FILL: FILL brown/orange fragments (<10 mm), brittle. Grey sandy sponge like material throughout. at 1.00 m: inclusions of brick, tiles and metal wire.			0.6		BH100_0.8-0.9
			1		CL	CLAY grey/black, medium plasticity. Rootlets					
SSA			2								
			3								
										0.2	BH100_3.4-3.5
						BH100 terminated at 3.50 m. Target depth					
			4								



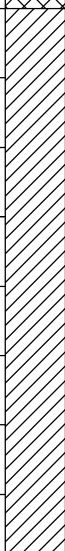
**Remarks:** 0.15-3.50 m: No odour/staining observed

<b>Client:</b> Goodman	<b>Project No:</b> 60623599	<b>Start Date:</b> 31/01/2020
<b>Project:</b> Burrows Industrial Estate (IE)	<b>Logged by:</b> Rebekah Panozzo	<b>End Date:</b> 31/01/2020
<b>Location:</b> Unit 2	<b>Checked by:</b> Alex Latham	<b>Location Meth.:</b> dGPS0.001
<b>Driller:</b> EPOCA	<b>Easting:</b> 331574.416 m	<b>Ground El.:</b> 2.422 mRL
<b>Drill Type:</b> diatube, hand auger, solid stem auger, hand auger, solid stem auger, hand auger, solid stem auger	<b>Northing:</b> 6245336.499 m	<b>Ver. Datum:</b> AHD
<b>Drill Model:</b> Geoprobe 7822DT	<b>Total Depth:</b> 4 m	<b>Hor. Proj/Dat:</b> MGA94/GDA94-55H
	<b>Bore Dia.:</b> 165 mm	

Drill Method	Casing	Groundwater Data and Comments	Depth (m)	Graphic Log	Classification	LITHOLOGICAL DESCRIPTION	Moisture	Consistency/Relative Density	Sample Interval	PID (ppm)	Sample ID
DT	None		0			PAVEMENT: CONCRETE slab	D				
SSA	HA					FILL: gravelly SAND pale brown, medium to coarse grain. Gravels; sandstone, white/yellow (20 - 40 mm). Minor slag and ironstone gravel (10 mm) inclusions. at 0.27 m: sandstone cobble					BH101_0.16-0.26
HA	SSA					FILL: SAND pale brown/white, fine to medium grain. Sandstone gravels (<10%) at 0.35 m: increase in sandstone gravel content (10-15%)			0.0		BH101_0.3-0.4
HA	SSA					FILL: sandy GRAVEL black, road base gravels (<5 mm). Sands; black, medium to coarse grain. Inclusions of ironstone gravels (10-20 mm), glass (30 mm), brick fragments.					BH101_0.7-0.8
SSA	SSA		1			FILL: gravelly SAND dark brown/black, fine to medium grain. Gravels; road base (<10 mm). Minor clay content, low plasticity. Inclusions of ceramics, metal, glass and cotton buds. at 1.00 m: increase in clay and ironstone gravels (10 %). Increase size of road base gravels (10-15 mm)	M				
									0.6		BH101_1.5-1.6

**Remarks:** 0.16-4.00 m: No odour/staining observed  
0.80 m: handauger refusal; switch to SSA

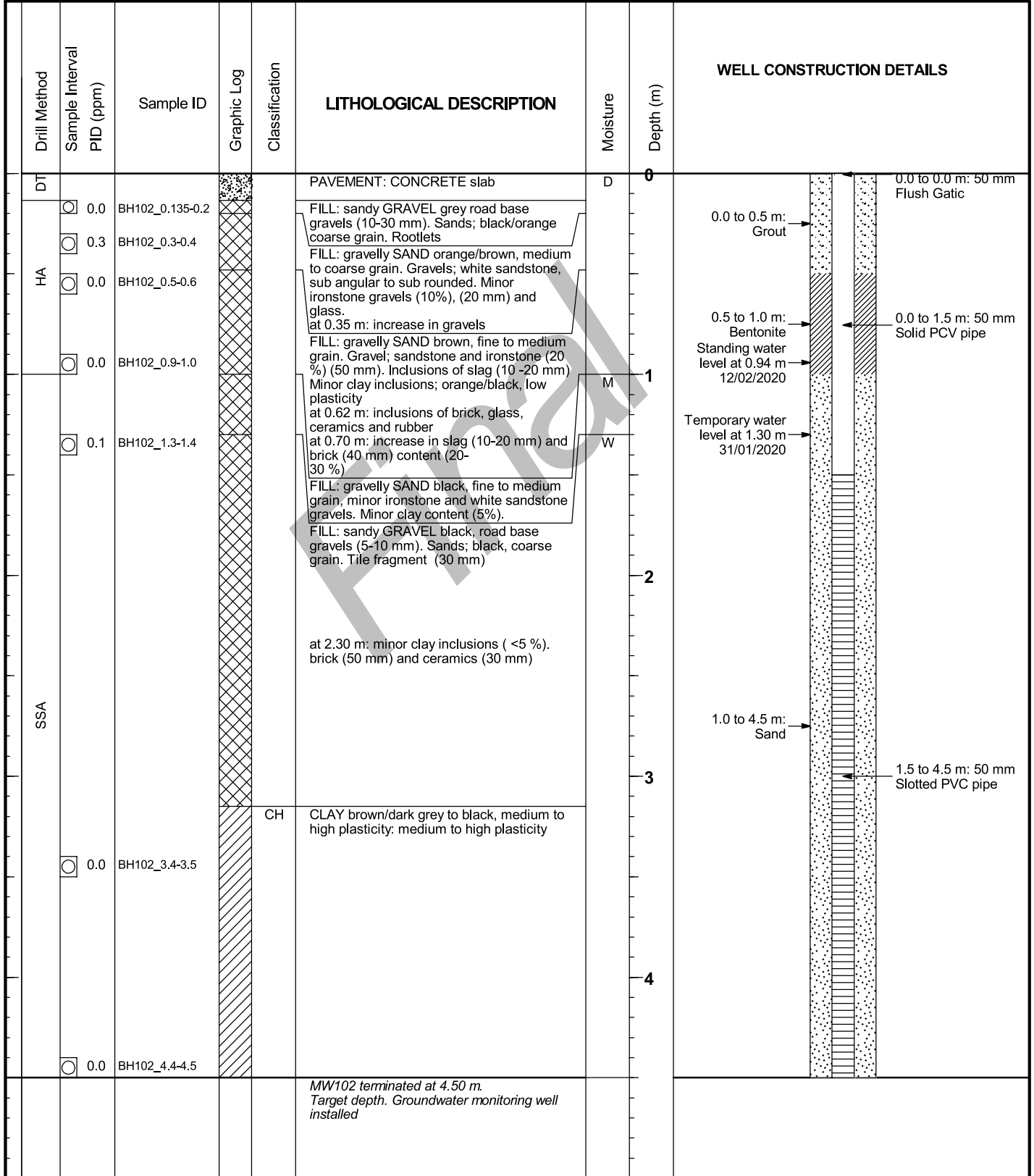
<b>Client:</b> Goodman	<b>Project No:</b> 60623599	<b>Start Date:</b> 31/01/2020
<b>Project:</b> Burrows Industrial Estate (IE)	<b>Logged by:</b> Rebekah Panozzo	<b>End Date:</b> 31/01/2020
<b>Location:</b> Unit 2	<b>Checked by:</b> Alex Latham	<b>Location Meth.:</b> dGPS0.001
<b>Driller:</b> EPOCA	<b>Easting:</b> 331574.416 m	<b>Ground El.:</b> 2.422 mRL
<b>Drill Type:</b> diatube, hand auger, solid stem auger, hand auger, solid stem auger, hand auger, solid stem auger	<b>Northing:</b> 6245336.499 m	<b>Ver. Datum:</b> AHD
<b>Drill Model:</b> Geoprobe 7822DT	<b>Total Depth:</b> 4 m	<b>Hor. Proj/Dat:</b> MGA94/GDA94-55H
	<b>Bore Dia.:</b> 165 mm	

Drill Method	Casing	Groundwater Data and Comments	Depth (m)	Graphic Log	Classification	LITHOLOGICAL DESCRIPTION	Moisture	Consistency/Relative Density	Sample Interval	PID (ppm)	Sample ID
SSA		Standing water level at 2.20 m 31/01/2020	2			FILL: gravelly SAND dark brown/black, fine to medium grain. Gravels; road base (<10 mm). Minor clay content, low plasticity. Inclusions of ceramics, metal, glass and cotton buds.	M				
						FILL: gravelly SAND black, medium to coarse grain. Road base gravels (10 mm). Inclusions of brick (40 mm), metals, metal wire (1 m), ceramics, glass.  at 2.80 m: minor clay content	W		0.0	BH101_2.2-2.3	
			3		CH	CLAY black/dark grey, medium to high plasticity				0.0	BH101_3.8-3.9

BH101 terminated at 4.00 m  
Target depth










<b>Client:</b> Goodman	<b>Project No:</b> 60623599	<b>Start Date:</b> 31/01/2020
<b>Project:</b> Burrows Industrial Estate (IE)	<b>Logged by:</b> Rebekah Panozzo	<b>End Date:</b> 31/01/2020
<b>Location:</b> Unit 2	<b>Checked by:</b> Alex Latham	<b>Location Meth.:</b> dGPS0.001
<b>Driller:</b> EPOCA	<b>Easting:</b> 331627.004 m	<b>Top of Casing:</b> 2.300 mRL
<b>Drill Type:</b> diatube, hand auger, solid stem auger	<b>Northing:</b> 6245313.221 m	<b>Ver. Datum:</b> AHD
<b>Drill Model:</b> Geoprobe 7822DT	<b>Total Depth:</b> 4.5 m	<b>Hor. Proj/Dat:</b> MGA94/GDA94-55H
	<b>Bore Dia.:</b> 165 mm	<b>Pipe Dia.:</b> 50 mm



**Remarks:** 0.14-3.50 m: No odour/staining observed

2018\_ANZ\_ENV\_01\_WELL\_BURROWSRD\_RP\_200206.GPJ AECOM\_5-00.GDT AECOM\_5-00AA\_GOODMANBURROWS.GLB 26.2.2020

<b>Client:</b> Goodman	<b>Project No:</b> 60623599	<b>Start Date:</b> 03/02/2020
<b>Project:</b> Burrows Industrial Estate (IE)	<b>Logged by:</b> Rebekah Panozzo	<b>End Date:</b> 03/02/2020
<b>Location:</b> Unit 3	<b>Checked by:</b> Alex Latham	<b>Location Meth.:</b> dGPS0.001
<b>Driller:</b> EPOCA	<b>Easting:</b> 331649.295 m	<b>Ground El.:</b> 2.786 mRL
<b>Drill Type:</b> diatube, hand auger, solid stem auger, hand auger, solid stem auger	<b>Northing:</b> 6245352.702 m	<b>Ver. Datum:</b> AHD
<b>Drill Model:</b> Geoprobe 7822DT	<b>Total Depth:</b> 4.5 m	<b>Hor. Proj/Dat:</b> MGA94/GDA94-55H
	<b>Bore Dia.:</b> 165 mm	

Drill Method	Casing	Groundwater Data and Comments	Depth (m)	Graphic Log	Classification	LITHOLOGICAL DESCRIPTION	Moisture	Consistency/Relative Density	Sample Interval	PID (ppm)	Sample ID
SSA	None	Standing water level at 2.00 m 03/02/2020	0			PAVEMENT: CONCRETE slab	D				
			0.15-0.25			FILL: gravelly SAND orange, fine to medium grain. Gravels; sandstone cobbles (60-100 mm) orange/brown at 0.30 m: sandstone cobble		0.1	BH103_0.15-0.25		
			0.85-0.95			FILL: as above with increase of sandstone gravels (30-40mm)		0.1	BH103_0.85-0.95		
			1.3-1.4			FILL: SAND brown, fine to medium grain. Minor ironstone gravels (15 mm) from 0.90 m, becoming black with minor ceramics		0.1	BH103_1.3-1.4		
			2.0-2.1			FILL: gravelly SAND light brown, fine to medium grain. Gravels; sandstone, grey (30 mm) from 1.40 m, becoming brown. No gravels.		0.1	BH103_2.0-2.1		
SSA	None	Standing water level at 2.00 m 03/02/2020	2			FILL: gravelly SAND dark brown/black, fine to coarse grain. Gravels; black road base gravels (10 mm), sub rounded to sub angular. Inclusions of brick, ceramics. Minor clay component.	W		0.0	BH103_2.0-2.1	
			4		CH	CLAY dark grey/black, high plasticity.		0.0	BH103_4.4-4.5		
						BH103 terminated at 4.50 m. Target depth					

**Remarks:** 0.15-3.80 m: No odour/staining observed  
3.80-4.50 m: Strong hydrogen sulfide odour

2018\_ANZ\_ENV\_02\_SOIL BORE LOG BURROWSRD\_RP\_200206.GPJ AECOM\_5-00.GDT AECOM\_5-00AA\_GOODMANBURROWS.GLB 26.2.2020

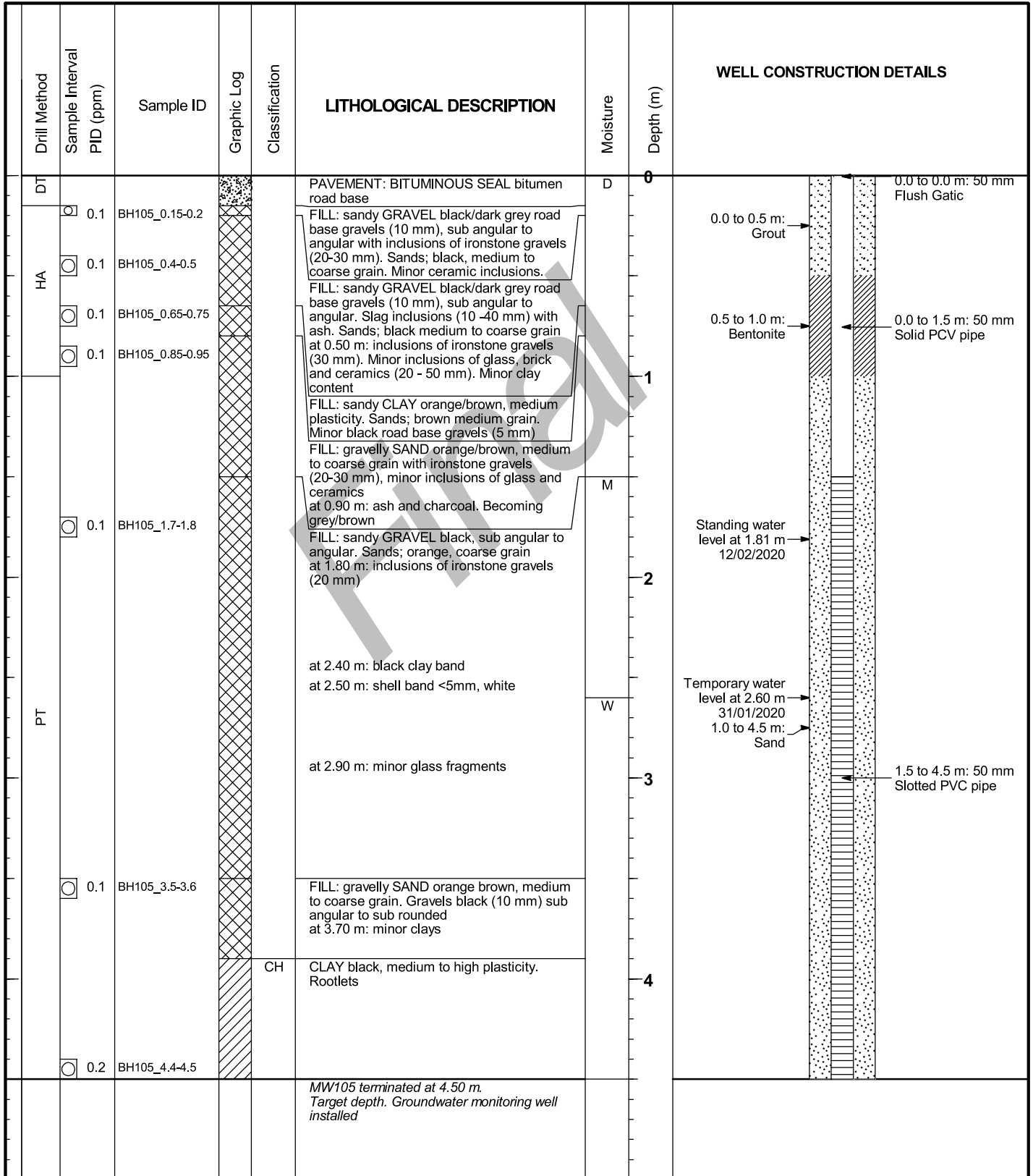
<b>Client:</b> Goodman	<b>Project No:</b> 60623599	<b>Start Date:</b> 31/01/2020
<b>Project:</b> Burrows Industrial Estate (IE)	<b>Logged by:</b> Rebekah Panozzo	<b>End Date:</b> 03/02/2020
<b>Location:</b> Unit 3	<b>Checked by:</b> Alex Latham	<b>Location Meth.:</b> dGPS0.001
<b>Driller:</b> EPOCA	<b>Easting:</b> 331621.782 m	<b>Ground El.:</b> 2.852 mRL
<b>Drill Type:</b> diatube, hand auger, solid stem auger	<b>Northing:</b> 6245384.239 m	<b>Ver. Datum:</b> AHD
<b>Drill Model:</b> Geoprobe 7822DT	<b>Total Depth:</b> 4.5 m	<b>Hor. Proj/Dat:</b> MGA94/GDA94-55H
	<b>Bore Dia.:</b> 165 mm	

Drill Method	Casing	Groundwater Data and Comments	Depth (m)	Graphic Log	Classification	LITHOLOGICAL DESCRIPTION	Moisture	Consistency/Relative Density	Sample Interval	PID (ppm)	Sample ID
DT	None		0			PAVEMENT: CONCRETE slab	D				
HA						FILL: gravelly SAND orange/brown sandstone sands, fine to medium grain. Gravels; sandstone (20-30 mm), white, sub rounded. becoming orange brown			0.1		BH104_0.15-0.25
						at 0.60 m: sandstone cobble					
			1			FILL: SAND black, fine to medium grain. Minor clay component			0.1		BH104_0.8-0.9
						at 0.90 m: tile fragment (10-20 mm), road base gravels (10-40 mm) sub rounded to sub angular					
						at 1.40 m: ash band			0.1		BH104_1.4-1.5
						FILL: SAND black, fine to medium grain. Minor road base gravels (10 mm), tile fragments (50 mm), brick fragments, metal wire.			0.2		BH104_1.6-1.7
						at 1.80 m: inclusion of red brick (20 - 30 mm), ceramics	M				
		Standing water level at 2.00 m 03/02/2020	2			FILL: sandy GRAVEL black, road base gravels (10 mm), sub rounded to sub angular. Sands; black, coarse grain.	W		0.1		BH104_2.0-2.1
						at 2.60 m: minor clay component. Inclusions of terracotta tiles (40 mm), metal wire, brick (40 mm) and ceramic (40 mm) fragments.					
			3			SAND grey/black, fine to medium grain. With metal wire, brick fragments (30 - 40 mm) and ceramics.	M				
					CL	CLAY dark grey/black, medium plasticity.					
			4								
						BH104 terminated at 4.50 m. Target depth					

**Remarks:** 0.15-4.50 m: No odour/staining observed

2018\_ANZ\_ENV\_02\_SOIL BORE LOG BURROWSRD\_RP\_200206.GPJ AECOM\_5-00.GDT AECOM\_5-00AA\_GOODMANBURROWS.GLB 26.2.2020

<b>Client:</b> Goodman	<b>Project No:</b> 60623599	<b>Start Date:</b> 31/01/2020
<b>Project:</b> Burrows Industrial Estate (IE)	<b>Logged by:</b> Rebekah Panozzo	<b>End Date:</b> 31/01/2020
<b>Location:</b> 1-3 Burrows Road, Alexandria NSW	<b>Checked by:</b> Alex Latham	<b>Location Meth.:</b> dGPS0.001
<b>Driller:</b> EPOCA	<b>Easting:</b> 331627.489 m	<b>Top of Casing:</b> 3.202 mRL
<b>Drill Type:</b> diatube, hand auger, push tube	<b>Northing:</b> 6245463.586 m	<b>Ver. Datum:</b> AHD
<b>Drill Model:</b> Geoprobe 7822DT	<b>Total Depth:</b> 4.5 m	<b>Hor. Proj/Dat:</b> MGA94/GDA94-55H
	<b>Bore Dia.:</b> 165 mm	<b>Pipe Dia.:</b> 50 mm



**Remarks:** 0.15-4.50 m: No odour/staining observed  
1.50-3.50 m: Minimal push tube recovery

2018\_ANZ\_ENV\_01\_WELL\_BURROWSRD\_IP\_200206.GPJ AECOM\_5-00.GDT AECOM\_5-00AA\_GOODMANBURROWS.GLB 26.2.2020


<b>Client:</b> Goodman	<b>Project No:</b> 60623599	<b>Start Date:</b> 28/01/2020
<b>Project:</b> Burrows Industrial Estate (IE)	<b>Logged by:</b> Kurtis Wathen	<b>End Date:</b> 28/01/2020
<b>Location:</b> Unit 4	<b>Checked by:</b> Alex Latham	<b>Location Meth.:</b> dGPS0.001
<b>Driller:</b> EPOCA	<b>Easting:</b> 331684.030 m	<b>Ground El.:</b> 3.467 mRL
<b>Drill Type:</b> solid stem auger, hand auger, push tube	<b>Northing:</b> 6245461.203 m	<b>Ver. Datum:</b> AHD
<b>Drill Model:</b> Geoprobe 7822DT	<b>Total Depth:</b> 6.3 m	<b>Hor. Proj/Dat:</b> MGA94/GDA94-55H
	<b>Bore Dia.:</b> 165 mm	

Drill Method	Casing	Groundwater Data and Comments	Depth (m)	Graphic Log	Classification	LITHOLOGICAL DESCRIPTION	Moisture	Consistency/Relative Density	Sample Interval	PID (ppm)	Sample ID
SSA	None		0			PAVEMENT: CONCRETE slab	D				
HA			0.30			FILL: SAND pale to dark brown, fine to coarse grain with ironstone gravels (<10 mm) and trace slag (<50 mm) and trace silts. at 0.30 m: becoming dark brown with sandstone gravels (20 mm), subangular to sub rounded. Trace sandstone cobbles subangular to sub rounded. Metal inclusions	M		1.7		BH106_0.2-0.3
								0.6		BH106_0.4-0.5	
								0.1		BH106_0.8-0.9	
PT		Standing water level at 1.70 m 28/01/2020	1			FILL: clayey SAND dark brown, medium to coarse grain with ironstone gravels (< 10 mm) subangular to sub rounded. Trace slag (10 mm), ceramic tile, metal and vegetation.	D				
						FILL: clayey SAND dark brown, medium to coarse grain. Clay; light brown. Brick inclusion (20-40 mm)	W		0.8		BH106_1.7-1.8
PT			2			FILL: SAND orange/brown, medium to coarse grain with ironstone gravels (10-20 mm), subangular to sub rounded. Trace glass					
						FILL: GRAVEL slag with trace coarse sands					BH106_2.7-2.8
PT			3								
PT			4		CL	sandy CLAY dark grey, low plasticity with white shell fragments (< 10 mm) trace rootlets			3.2		BH106_4.0-4.1

**Remarks:** 0.15-4.30 m: No odour/staining observed  
 1.50-2.70 m: Minimal pushtube recovery  
 2.90-3.10 m: No pushtube recovery  
 4.30-5.10 m: No pushtube recovery. Mild hydrogen sulfide odour

2018\_ANZ\_ENV\_02\_SOIL\_BORE\_LOG\_BURROWSRD\_RP\_200206.GPJ AECOM\_5-00.GDT AECOM\_5-00AA\_GOODMANBURROWS.GLB 26.2.2020

<b>Client:</b> Goodman	<b>Project No:</b> 60623599	<b>Start Date:</b> 28/01/2020
<b>Project:</b> Burrows Industrial Estate (IE)	<b>Logged by:</b> Kurtis Wathen	<b>End Date:</b> 28/01/2020
<b>Location:</b> Unit 4	<b>Checked by:</b> Alex Latham	<b>Location Meth.:</b> dGPS0.001
<b>Driller:</b> EPOCA	<b>Easting:</b> 331684.030 m	<b>Ground El.:</b> 3.467 mRL
<b>Drill Type:</b> solid stem auger, hand auger, push tube	<b>Northing:</b> 6245461.203 m	<b>Ver. Datum:</b> AHD
<b>Drill Model:</b> Geoprobe 7822DT	<b>Total Depth:</b> 6.3 m	<b>Hor. Proj/Dat:</b> MGA94/GDA94-55H
	<b>Bore Dia.:</b> 165 mm	

Drill Method	Casing	Groundwater Data and Comments	Depth (m)	Graphic Log	Classification	LITHOLOGICAL DESCRIPTION	Moisture	Consistency/Relative Density	Sample Interval	PID (ppm)	Sample ID
			5		CL	sandy CLAY dark grey, low plasticity with white shell fragments (< 10 mm) trace rootlets from 5.10 m to 5.30 m: shell band	W				
			6						<input type="checkbox"/>	0.5	BH106_6.0-6.1
			7			<i>BH106 terminated at 6.30 m. Target depth</i>					
			8								
			9								

2018\_ANZ\_ENV\_02\_SOIL BORE LOG BURROWSRD\_RP\_200206.GPJ AECOM\_5-00.GDT AECOM\_5-00AA\_GOODMANBURROWS.GLB 26.2.2020

<b>Client:</b> Goodman	<b>Project No:</b> 60623599	<b>Start Date:</b> 29/01/2020
<b>Project:</b> Burrows Industrial Estate (IE)	<b>Logged by:</b> Rebekah Panozzo	<b>End Date:</b> 29/01/2020
<b>Location:</b> Unit 8	<b>Checked by:</b> Alex Latham	<b>Location Meth.:</b> dGPS0.001
<b>Driller:</b> EPOCA	<b>Easting:</b> 331731.264 m	<b>Ground El.:</b> 4.320 mRL
<b>Drill Type:</b> diatube, hand auger, solid stem auger, hand auger, push tube, solid stem auger	<b>Northing:</b> 6245491.173 m	<b>Ver. Datum:</b> AHD
<b>Drill Model:</b> Geoprobe 7822DT	<b>Total Depth:</b> 5 m	<b>Hor. Proj/Dat:</b> MGA94/GDA94-55H
	<b>Bore Dia.:</b> 165 mm	

Drill Method	Casing	Groundwater Data and Comments	Depth (m)	Graphic Log	Classification	LITHOLOGICAL DESCRIPTION	Moisture	Consistency/Relative Density	Sample Interval	PID (ppm)	Sample ID
HA DT	None		0			PAVEMENT: CONCRETE slab	D				
SSA			0.1			FILL: SAND orange sandstone sands, medium to coarse grain	M		0.1		BH107_0.2-0.3
HA			0.2			FILL: silty SAND dark brown, medium to coarse grain with concrete gravels (10-40 mm). Brick (20 mm) at 0.28 m: concrete cobble. Use solid stem auger to pass, return to hand auger	D		0.2		BH107_0.4-0.5
HA			0.3			FILL: SAND black/grey with orange, medium to coarse grain. Crushed brick fragments	D		0.3		BH107_0.5-0.6
			0.9			FILL: silty SAND dark brown/pale grey fine to medium grain with slag (10-80 mm), brick (20 mm) and sandstone gravels (10-20 mm) subangular to sub rounded			0.9		BH107_0.8-1.0
			1.0			FILL: silty SAND dark brown. Pale grey, fine to medium grain with shell fragments (50 mm) and nodules of metals (40 mm)					
			1.5			FILL: gravelly SAND dark brown, fine to medium grain inclusions of ceramics (20 mm) and minor glass. at 1.00 m: ash and crushed brick					
		Standing water level at 1.70 m 29/01/2020	3.5						3.5		BH107_1.5-1.7
PT			2								
			3								
			4			FILL: sandy GRAVEL grey gravels. Sands; grey, coarse grain. Inclusions of terracotta, brick, glass and ironstone gravels			0.5		BH107_3.9-4.0
SSA			4.8		SC	clayey SAND black, fine to medium grained			0.3		BH107_4.8-5.0

BH107 terminated at 5.00 m  
Target depth

**Remarks:** 0.15-4.80 m: No odour/staining observed  
1.50-3.90 m: Minimal push tube recovery. Push tube sinking due to sands (1.5-2.7 m)  
4.80-5.00 m: Hydrogen sulfide odour



<b>Client:</b> Goodman	<b>Project No:</b> 60623599	<b>Start Date:</b> 28/01/2020
<b>Project:</b> Burrows Industrial Estate (IE)	<b>Logged by:</b> Kurtis Wathen	<b>End Date:</b> 28/01/2020
<b>Location:</b> Unit 9	<b>Checked by:</b> Alex Latham	<b>Location Meth.:</b> dGPS0.001
<b>Driller:</b> EPOCA	<b>Easting:</b> 331714.016 m	<b>Ground El.:</b> 4.935 mRL
<b>Drill Type:</b> diatube, hand auger, hand auger, solid stem auger	<b>Northing:</b> 6245533.699 m	<b>Ver. Datum:</b> AHD
<b>Drill Model:</b> Geoprobe 7822DT	<b>Total Depth:</b> 5.1 m	<b>Hor. Proj/Dat:</b> MGA94/GDA94-55H
	<b>Bore Dia.:</b> 165 mm	


Drill Method	Casing	Groundwater Data and Comments	Depth (m)	Graphic Log	Classification	LITHOLOGICAL DESCRIPTION	Moisture	Consistency/Relative Density	Sample Interval	PID (ppm)	Sample ID
HADT	None		0			PAVEMENT: CONCRETE slab	D				
						FILL: sandy GRAVEL dark grey road base gravels (10-30 mm). Sand; medium to coarse grain			1.7		BH108_0.15-0.25
						PAVEMENT: CONCRETE slab			1.5		BH108_0.35-0.45
						FILL: sandy GRAVEL dark brown road base gravels (10-60 mm) with slag (20-40 mm) and ironstone gravels (10 mm) from 0.50 m: becoming gravelly sand. Sand becoming orange brown, trace ceramic (20 mm) and glass	M		0.6		BH108_0.5-0.6
						FILL: gravelly SAND red/brown, fine to coarse grain, mixed with ash (grey). Gravels; dark grey (10 mm) with slag gravels. Trace clay content and ironstone gravel (20 mm) and glass.			0.4		BH108_0.7-0.8
						FILL: as above; no obvious ash or slag			0.3		BH108_0.85-0.9
			1			from 1.10 m: slag gravels and charcoal					
						from 1.30 m to 1.40 m: ash band			2.4		BH108_1.3-1.4
			2								
						FILL: SAND red/orange, medium grain with ironstone gravel and trace slag			0.7		BH108_2.3-2.4
						from 2.50 m to 2.60 m: sands medium to coarse grain, blue/green colour					BH108_2.5-2.6
						FILL: FILL mixed slag, ash and trace road base gravels			1.8		BH108_2.8-2.9
		Standing water level at 3.00 m 28/01/2020	3								
			4		CL	FILL: clayey gravelly SAND red, medium to coarse grain. With ironstone gravels (10-60 mm), trace slag	W		3.8		BH108_4.1-4.2
					CL	sandy CLAY dark grey mottled grey, medium plasticity			1.6		BH108_4.3-4.4
					SC	clayey SAND pale to dark grey, fine to medium grain			2.7		BH108_4.9-5.0

**Remarks:** 0.14-4.30 m: No odour/staining observed  
 4.30-4.90 m: Hydrogen sulfide odour  
 4.90-5.10 m: No odour/staining observed

2018\_ANZ\_ENV\_02\_SOIL BORE LOG BURROWSRD\_RP\_200206.GPJ AECOM\_5-00.GDT AECOM\_5-00AA\_GOODMANBURROWS.GLB 26.2.2020



<b>Client:</b> Goodman	<b>Project No:</b> 60623599	<b>Start Date:</b> 28/01/2020
<b>Project:</b> Burrows Industrial Estate (IE)	<b>Logged by:</b> Kurtis Wathen	<b>End Date:</b> 28/01/2020
<b>Location:</b> Unit 9	<b>Checked by:</b> Alex Latham	<b>Location Meth.:</b> dGPS0.001
<b>Driller:</b> EPOCA	<b>Easting:</b> 331714.016 m	<b>Ground El.:</b> 4.935 mRL
<b>Drill Type:</b> diatube, hand auger, hand auger, solid stem auger	<b>Northing:</b> 6245533.699 m	<b>Ver. Datum:</b> AHD
<b>Drill Model:</b> Geoprobe 7822DT	<b>Total Depth:</b> 5.1 m	<b>Hor. Proj/Dat:</b> MGA94/GDA94-55H
	<b>Bore Dia.:</b> 165 mm	

Drill Method	Casing	Groundwater Data and Comments	Depth (m)	Graphic Log	Classification	LITHOLOGICAL DESCRIPTION	Moisture	Consistency/Relative Density	Sample Interval	PID (ppm)	Sample ID
			5		SC	clayey SAND pale to dark grey, fine to medium grain <i>BH108 terminated at 5.10 m. Target depth</i>	W				
			6								
			7								
			8								
			9								

2018\_ANZ\_ENV\_02\_SOIL BORE LOG BURROWSRD\_RP\_200206.GPJ AECOM\_5-00.GDT AECOM\_5-00AA\_GOODMANBURROWS.GLB 26.2.2020


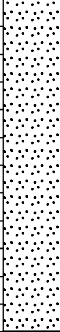
<b>Client:</b> Goodman	<b>Project No:</b> 60623599	<b>Start Date:</b> 27/01/2020
<b>Project:</b> Burrows Industrial Estate (IE)	<b>Logged by:</b> Rebekah Panozzo	<b>End Date:</b> 27/01/2020
<b>Location:</b> Unit 9	<b>Checked by:</b> Alex Latham	<b>Location Meth.:</b> dGPS0.001
<b>Driller:</b> EPOCA	<b>Easting:</b> 331694.186 m	<b>Ground El.:</b> 4.924 mRL
<b>Drill Type:</b> diatube, non-destructive drilling, solid stem auger, push tube	<b>Northing:</b> 6245515.801 m	<b>Ver. Datum:</b> AHD
<b>Drill Model:</b> Geoprobe 7822DT	<b>Total Depth:</b> 6.3 m	<b>Hor. Proj/Dat:</b> MGA94/GDA94-55H
	<b>Bore Dia.:</b> 165 mm	

Drill Method	Casing	Groundwater Data and Comments	Depth (m)	Graphic Log	Classification	LITHOLOGICAL DESCRIPTION	Moisture	Consistency/Relative Density	Sample Interval	PID (ppm)	Sample ID
DT	None		0			PAVEMENT: CONCRETE slab	D				
NDD			0.3			FILL: SAND dark grey, medium to coarse grain. Inclusions of brick (90 mm), ceramic tiles and minor iron stone inclusions (20 mm) at 0.45 m: same as above, with ash 10 - 15 %			0.3		BH109_0.3-0.4
SSA			0.4			FILL: gravelly SAND sandstone sands, mixture of red, brown, grey, medium to coarse grained sands. Inclusion of shale gravels (15-20 mm), sub angular, slag (30-40 mm)			0.4		BH109_0.6-0.7
			0.9			FILL: gravelly SAND dark brown, medium to coarse grain, slag inclusions (20-50 mm)			0.3		BH109_0.9-1.0
			1.2			FILL: clayey SAND grey/brown, medium grained. Inclusions of sandstone angular gravels. Minor glass, ceramic, slag and tree roots. at 1.20 m: increase slag content					
			1.5			FILL: gravelly SAND black, medium grained. Road base gravels. Minor slag inclusions			1.2		BH109_1.5-1.6
			2.7			FILL: gravelly SAND orange and red, medium to coarse grain. Road base gravels (10-15 mm), sub angular. Minor clay inclusions and ceramic fragments	M				
		Standing water level at 2.70 m 27/02/2020	3.0			from 2.90 m to 3.00 m: dark grey and green	W		3.3		BH109_2.7-2.8
PT			4.5		CL	sandy CLAY dark grey, medium plasticity, sand medium grain.			0.2		BH109_4.5-4.6

**Remarks:** 0.28-6.30 m: No odour/staining observed  
 0.80-0.90 m: Hand auger refusal, switching to SSA  
 1.50-2.70 m: Minimal pushtube recovery, no sample recovery

2018\_ANZ\_ENV\_02\_SOIL BORE LOG BURROWSRD\_RP\_200206.GPJ AECOM\_5-00.GDT AECOM\_5-00AA\_GOODMANBURROWS.GLB 26.2.2020

<b>Client:</b> Goodman	<b>Project No:</b> 60623599	<b>Start Date:</b> 27/01/2020
<b>Project:</b> Burrows Industrial Estate (IE)	<b>Logged by:</b> Rebekah Panozzo	<b>End Date:</b> 27/01/2020
<b>Location:</b> Unit 9	<b>Checked by:</b> Alex Latham	<b>Location Meth.:</b> dGPS0.001
<b>Driller:</b> EPOCA	<b>Easting:</b> 331694.186 m	<b>Ground El.:</b> 4.924 mRL
<b>Drill Type:</b> diatube, non-destructive drilling, solid stem auger, push tube	<b>Northing:</b> 6245515.801 m	<b>Ver. Datum:</b> AHD
<b>Drill Model:</b> Geoprobe 7822DT	<b>Total Depth:</b> 6.3 m	<b>Hor. Proj/Dat:</b> MGA94/GDA94-55H
	<b>Bore Dia.:</b> 165 mm	

Drill Method	Casing	Groundwater Data and Comments	Depth (m)	Graphic Log	Classification	LITHOLOGICAL DESCRIPTION	Moisture	Consistency/Relative Density	Sample Interval	PID (ppm)	Sample ID
PT			5		CL		W				
			6		SC	clayey SAND grey, fine to medium grain sands, medium plasticity: clay content decreasing  from 5.80 m to 6.30 m: shell band; white, shells (5 -10 mm)				<input type="checkbox"/> 0.3	BH109_6.1-6.2
			7			BH109 terminated at 6.30 m. Target depth					
			8								
			9								

2018\_ANZ\_ENV\_02\_SOIL BORE LOG BURROWSRD\_RP\_200206.GPJ AECOM\_5-00.GDT AECOM\_5-00AA\_GOODMANBURROWS.GLB 26.2.2020

<b>Client:</b> Goodman	<b>Project No:</b> 60623599	<b>Start Date:</b> 27/01/2020
<b>Project:</b> Burrows Industrial Estate (IE)	<b>Logged by:</b> Rebekah Panozzo	<b>End Date:</b> 27/01/2020
<b>Location:</b> Unit 9	<b>Checked by:</b> Alex Latham	<b>Location Meth.:</b> dGPS0.001
<b>Driller:</b> EPOCA	<b>Easting:</b> 331661.963 m	<b>Ground El.:</b> 4.888 mRL
<b>Drill Type:</b> diatube, hand auger, push tube, solid stem auger	<b>Northing:</b> 6245491.955 m	<b>Ver. Datum:</b> AHD
<b>Drill Model:</b> Geoprobe 7822DT	<b>Total Depth:</b> 5.1 m	<b>Hor. Proj/Dat:</b> MGA94/GDA94-55H
	<b>Bore Dia.:</b> 165 mm	

Drill Method	Casing	Groundwater Data and Comments	Depth (m)	Graphic Log	Classification	LITHOLOGICAL DESCRIPTION	Moisture	Consistency/Relative Density	Sample Interval	PID (ppm)	Sample ID
DT	None		0			PAVEMENT: CONCRETE slab	D				
HA			0.35-0.36			FILL: gravelly SAND dark grey, coarse to medium grain. Minor ironstone gravels, sub-rounded to sub-angular (20 mm), slag fragments (10-25 mm)			0.5		BH110_0.35-0.36
PT			0.4-0.6			at 0.40 m: fragments of terracotta pipe, orange (40 - 70 mm) at 0.45 m: metal inclusions ( 50 mm)			0.4		BH110_0.4-0.6
			0.9-1.0			from 0.50 m: increase in ironstone gravels and slag (20 - 30 mm), sub-rounded to sub-angular. Minor inclusions of glass (30 mm), ceramics, brick fragments and slag (10 mm)			0.5		BH110_0.9-1.0
			1.2-1.3			FILL: gravelly SAND brown, fine to medium grain. Ironstone gravels, sub-rounded to sub-angular (10-40 mm) Minor clays and sandstone gravels (10 mm), terracotta			0.7		BH110_1.2-1.3
			2.80			FILL: SAND sandstone sands, orange, inclusions of ceramic at 2.80 m: rubber inclusion	W				

**Remarks:** 0.33-5.10 m: No odour/staining observed  
 1.20-2.70 m: Minimal recovery for ACM sample  
 2.70-5.10 m: Minimal pushtube recovery

2018\_ANZ\_ENV\_02\_SOIL BORE LOG BURROWSRD\_RP\_200206.GPJ AECOM\_5-00.GDT AECOM\_5-00AA\_GOODMANBURROWS.GLB 26.2.2020

<b>Client:</b> Goodman	<b>Project No:</b> 60623599	<b>Start Date:</b> 27/01/2020
<b>Project:</b> Burrows Industrial Estate (IE)	<b>Logged by:</b> Rebekah Panozzo	<b>End Date:</b> 27/01/2020
<b>Location:</b> Unit 9	<b>Checked by:</b> Alex Latham	<b>Location Meth.:</b> dGPS0.001
<b>Driller:</b> EPOCA	<b>Easting:</b> 331661.963 m	<b>Ground El.:</b> 4.888 mRL
<b>Drill Type:</b> diatube, hand auger, push tube, solid stem auger	<b>Northing:</b> 6245491.955 m	<b>Ver. Datum:</b> AHD
<b>Drill Model:</b> Geoprobe 7822DT	<b>Total Depth:</b> 5.1 m	<b>Hor. Proj/Dat:</b> MGA94/GDA94-55H
	<b>Bore Dia.:</b> 165 mm	

Drill Method	Casing	Groundwater Data and Comments	Depth (m)	Graphic Log	Classification	LITHOLOGICAL DESCRIPTION	Moisture	Consistency/Relative Density	Sample Interval	PID (ppm)	Sample ID
		Standing water level at 5.10 m 27/01/2020	5	XXXX	CL	FILL: SAND sandstone sands, orange, inclusions of ceramic silty CLAY grey, medium plasticity. BH110 terminated at 5.10 m. Target depth	W				
			6								
			7								
			8								
			9								

2018\_ANZ\_ENV\_02\_SOIL BORE LOG BURROWSRD\_RP\_200206.GPJ AECOM\_5-00.GDT AECOM\_5-00AA\_GOODMANBURROWS.GLB 26.2.2020







<b>Client:</b> Goodman	<b>Project No:</b> 60623599	<b>Start Date:</b> 30/01/2020
<b>Project:</b> Burrows Industrial Estate (IE)	<b>Logged by:</b> Rebekah Panozzo	<b>End Date:</b> 30/01/2020
<b>Location:</b> Unit 6	<b>Checked by:</b> Alex Latham	<b>Location Meth.:</b> dGPS0.001
<b>Driller:</b> EPOCA	<b>Easting:</b> 331718.244 m	<b>Ground El.:</b> 3.455 mRL
<b>Drill Type:</b> diatube, hand auger, solid stem auger, hand auger, solid stem auger	<b>Northing:</b> 6245456.264 m	<b>Ver. Datum:</b> AHD
<b>Drill Model:</b> Geoprobe 7822DT	<b>Total Depth:</b> 4.5 m	<b>Hor. Proj/Dat:</b> MGA94/GDA94-55H
	<b>Bore Dia.:</b> 165 mm	

Drill Method	Groundwater Data and Comments	Depth (m)	Graphic Log	Classification	LITHOLOGICAL DESCRIPTION	Moisture	Consistency/Relative Density	Sample Interval	PID (ppm)	Sample ID	
DT	Standing water level at 2.40 m 30/01/2020	0			PAVEMENT: CONCRETE slab	D					
HA					FILL: SAND orange mixed with brown, medium grain, 10% yellow fine grain sands. Minor road base gravels and glass (20 mm)			0.1		BH111_0.15-0.2	
SSA					FILL: gravelly SAND grey, medium to coarse grain with inclusions of ironstone (15 mm) and road base gravels, slag and ceramics (15 mm)			0.2		BH111_0.3-0.4	
HA					at 0.45 m: cobble (60 mm)						
					at 0.50 m: as above with increase size in ironstone gravels (20-30 mm)				0.1		BH111_0.65-0.75
			1			FILL: SAND red/brown, medium to coarse grain, minor ironstone gravels (10 mm) and ceramics (15 mm).					
						at 0.70 m: concrete cobble (70 mm)					
						at 1.20 m: sands becoming red with minor glass inclusions					
						FILL: clayey SAND orange/red, minor to coarse grain, minor inclusions of ceramics, glass and black gravels (5 mm)			0.1		BH111_1.5-1.6
			2			at 2.00 m: increase in slag content	M				
					FILL: sandy GRAVEL brown, medium to coarse grain. Gravels; black road base (5-10 mm), sub angular to sub rounded. Minor inclusions of plastic	W		0.0		BH111_2.3-2.4	
					at 2.60 m: increase size of road base gravels (30-50 mm)	M					
		3			at 3.00 m: inclusions of ceramics						
					FILL: gravelly SAND red/grey, medium to coarse grain. Gravels; black road base (5-10 mm), sub angular. Minor clays.			0.1		BH111_3.2-3.3	
					at 3.40 m: black clay. Possibly natural						
				CL	CLAY black/dark grey, medium plasticity.	W					
		4						0.1		BH111_4.3-4.5	
					BH111 terminated at 4.50 m. Target depth						

**Remarks:** 0.14-4.50 m: No odour/staining observed

2018\_ANZ\_ENV\_02\_SOIL BORE LOG BURROWSRD\_RP\_200206.GPJ AECOM\_5-00.GDT AECOM\_5-00AA\_GOODMANBURROWS.GLB 26.2.2020

<b>Client:</b> Goodman	<b>Project No:</b> 60623599	<b>Start Date:</b> 29/01/2020
<b>Project:</b> Burrows Industrial Estate (IE)	<b>Logged by:</b> Rebekah Panozzo	<b>End Date:</b> 29/01/2020
<b>Location:</b> 1-3 Burrows Road, Alexandria NSW	<b>Checked by:</b> Alex Latham	<b>Location Meth.:</b> dGPS0.001
<b>Driller:</b> EPOCA	<b>Easting:</b> 331776.030 m	<b>Ground El.:</b> 3.473 mRL
<b>Drill Type:</b> diatube, hand auger, solid stem auger, hand auger	<b>Northing:</b> 6245471.041 m	<b>Ver. Datum:</b> AHD
<b>Drill Model:</b> Geoprobe 7822DT	<b>Total Depth:</b> 1.38 m	<b>Hor. Proj/Dat:</b> MGA94/GDA94-55H
	<b>Bore Dia.:</b> 165 mm	

Drill Method	Casing	Groundwater Data and Comments	Depth (m)	Graphic Log	Classification	LITHOLOGICAL DESCRIPTION	Moisture	Consistency/Relative Density	Sample Interval	PID (ppm)	Sample ID
DT	None		0			PAVEMENT: CONCRETE slab	D				
HA			0.2-0.3			FILL: gravelly SAND dark brown, medium to coarse grain. Slag gravels (10-15mm), minor tile inclusions			1.3		BH113_0.2-0.3
HA			0.4-0.5			at 0.40 m: sands becoming light brown. Minor modules metals			0.5		BH113_0.4-0.5
SSA			0.6-0.7			FILL: gravelly SAND moisture of pale yellow/brown and orange, medium to coarse grain. Gravels; road base (15-20 mm), pale yellow sandstone gravels and ironstone gravels (20 mm), minor glass inclusions (40 mm) at 0.67 m: minor orange clay inclusions grey cobble			0.2		BH113_0.6-0.7
HA			1.0-1.1			FILL: SAND yellow, fine to medium grain			0.8		BH113_1.0-1.1
			1.3-1.38			at 1.10 m: as above with inclusions of ironstone gravels (30 mm), slag and concrete gravels FILL: SAND brown, fine to medium grain with 5% ironstone gravels					BH113_1.3-1.38
<p><i>BH113 terminated at 1.38 m. Possible services</i></p>											

**Remarks:** 0.15-1.38 m: No odour/staining

2018\_ANZ\_ENV\_02\_SOIL\_BORE\_LOG\_BURROWSRD\_RP\_200206.GPJ AECOM\_5-00.GDT AECOM\_5-00AA\_GOODMANBURROWS.GLB 26.2.2020

<b>Client:</b> Goodman	<b>Project No:</b> 60623599	<b>Start Date:</b> 03/02/2020
<b>Project:</b> Burrows Industrial Estate (IE)	<b>Logged by:</b> Rebekah Panozzo	<b>End Date:</b> 03/02/2020
<b>Location:</b> 1-3 Burrows Road, Alexandria NSW	<b>Checked by:</b> Alex Latham	<b>Location Meth.:</b> dGPS0.001
<b>Driller:</b> EPOCA	<b>Easting:</b> 331703.793 m	<b>Ground El.:</b> 4.335 mRL
<b>Drill Type:</b> diatube, hand auger, solid stem auger	<b>Northing:</b> 6245481.454 m	<b>Ver. Datum:</b> AHD
<b>Drill Model:</b> Geoprobe 7822DT	<b>Total Depth:</b> 5.5 m	<b>Hor. Proj/Dat:</b> MGA94/GDA94-55H
	<b>Bore Dia.:</b> 165 mm	


Drill Method	Casing	Groundwater Data and Comments	Depth (m)	Graphic Log	Classification	LITHOLOGICAL DESCRIPTION	Moisture	Consistency/Relative Density	Sample Interval	PID (ppm)	Sample ID	
DT	None	Standing water level at 1.30 m 03/02/2020	0			PAVEMENT: CONCRETE slab	D					
HA			0.15-0.25			FILL: gravelly SAND black, medium to coarse grain. Gravels; black roadbase gravels (20 - 30 mm)			0.0		BH114_0.15-0.25	
			0.45-0.55			at 0.20 m: ash at 0.27 m: brick fragment (50 - 70 mm) becoming brown/black. Increased size of roadbase gravels (10 - 30 mm). Inclusions of ironstone gravels.			0.1		BH114_0.45-0.55	
			0.8-0.9			at 0.50 m: inclusions of slag, glass, bark chips, plastic and ceramics. Sands becoming orange/brown FILL: SAND brown, medium to coarse grain. With ironstone gravels and bricks orange sandstone sands and white sandstone gravels (40 mm)			0.0		BH114_0.8-0.9	
			1.3-1.4			FILL: gravelly SAND brown, medium to coarse grain. With ironstone and roadbase gravels (10 - 20 mm). Minor clay component, low to medum plasticity. at 1.30 m: sand becoming coarse	M					
			2.3-2.4							0.0		BH114_2.3-2.4
			2.75-2.85				FILL: SAND red, coarse grain			0.9		BH114_2.75-2.85
			3.3-3.4				FILL: clayey SAND brown, fine to medium grain. Clay; black, low to medium plasticity. from 3.30 m: metals and rootlets			0.1		BH114_3.3-3.4
			4.30				from 4.30 m: as above with increasing clay component					

**Remarks:** 0.15-5.50 m: No odour/staining observed  
4.30 m: Possibly Natural

2018\_ANZ\_ENV\_02\_SOIL BORE LOG BURROWSRD\_RP\_200206.GPJ AECOM\_5-00.GDT AECOM\_5-00AA\_GOODMANBURROWS.GLB 26.2.2020

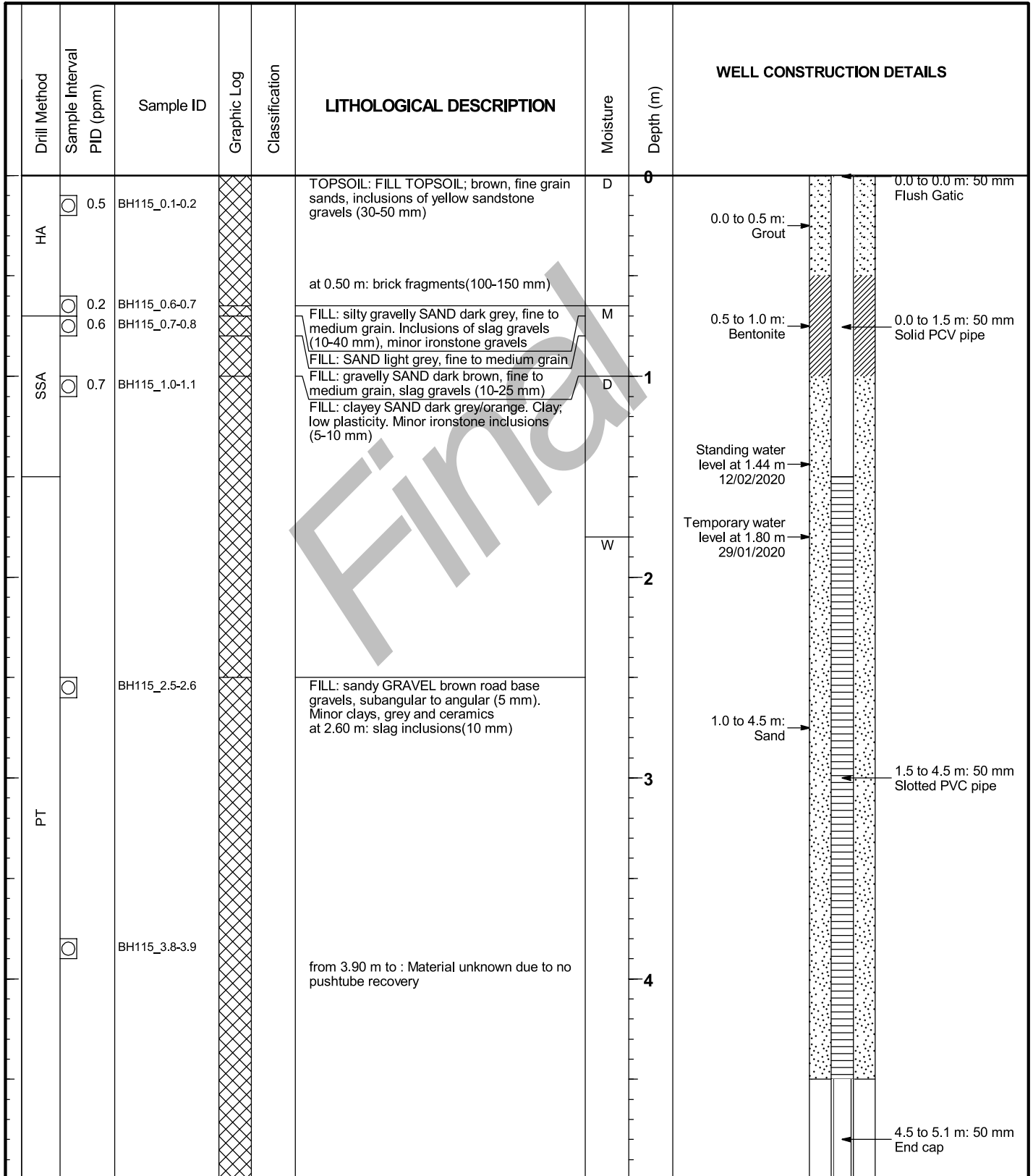


<b>Client:</b> Goodman	<b>Project No:</b> 60623599	<b>Start Date:</b> 03/02/2020
<b>Project:</b> Burrows Industrial Estate (IE)	<b>Logged by:</b> Rebekah Panozzo	<b>End Date:</b> 03/02/2020
<b>Location:</b> 1-3 Burrows Road, Alexandria NSW	<b>Checked by:</b> Alex Latham	<b>Location Meth.:</b> dGPS0.001
<b>Driller:</b> EPOCA	<b>Easting:</b> 331703.793 m	<b>Ground El.:</b> 4.335 mRL
<b>Drill Type:</b> diatube, hand auger, solid stem auger	<b>Northing:</b> 6245481.454 m	<b>Ver. Datum:</b> AHD
<b>Drill Model:</b> Geoprobe 7822DT	<b>Total Depth:</b> 5.5 m	<b>Hor. Proj/Dat:</b> MGA94/GDA94-55H
	<b>Bore Dia.:</b> 165 mm	

Drill Method	Casing	Groundwater Data and Comments	Depth (m)	Graphic Log	Classification	LITHOLOGICAL DESCRIPTION	Moisture	Consistency/Relative Density	Sample Interval	PID (ppm)	Sample ID
			5		CL	CLAY dark grey/black, medium plasticity:			0.0		BH114_5.0-5.1
			6			<i>BH114 terminated at 5.50 m. Target depth</i>					
			7								
			8								
			9								

2018\_ANZ\_ENV\_02\_SOIL BORE LOG BURROWSRD\_RP\_200206.GPJ AECOM\_5-00.GDT AECOM\_5-00AA\_GOODMANBURROWS.GLB 26.2.2020

<b>Client:</b> Goodman	<b>Project No:</b> 60623599	<b>Start Date:</b> 29/01/2020
<b>Project:</b> Burrows Industrial Estate (IE)	<b>Logged by:</b> Rebekah Panozzo	<b>End Date:</b> 29/01/2020
<b>Location:</b> 1-3 Burrows Road, Alexandria NSW	<b>Checked by:</b> Alex Latham	<b>Location Meth.:</b> dGPS0.001
<b>Driller:</b> EPOCA	<b>Easting:</b> 331673,500 m	<b>Top of Casing:</b> 2,843 mRL
<b>Drill Type:</b> hand auger, solid stem auger, push tube	<b>Northing:</b> 6245404,400 m	<b>Ver. Datum:</b> AHD
<b>Drill Model:</b> Geoprobe 7822DT	<b>Total Depth:</b> 5.1 m	<b>Hor. Proj/Dat:</b> MGA94/GDA94-55H
	<b>Bore Dia.:</b> 165 mm	<b>Pipe Dia.:</b> 50 mm



**Remarks:** 0.00-5.10 m: No odour/staining observed  
 1.50-2.70 m: Minimal pushtube recovery  
 2.70-3.90 m: Very minimal pushtube recovery  
 3.90-5.10 m: No pushtube recovery

<b>Client:</b> Goodman	<b>Project No:</b> 60623599	<b>Start Date:</b> 29/01/2020
<b>Project:</b> Burrows Industrial Estate (IE)	<b>Logged by:</b> Rebekah Panozzo	<b>End Date:</b> 29/01/2020
<b>Location:</b> 1-3 Burrows Road, Alexandria NSW	<b>Checked by:</b> Alex Latham	<b>Location Meth.:</b> dGPS0.001
<b>Driller:</b> EPOCA	<b>Easting:</b> 331673,500 m	<b>Top of Casing:</b> 2,843 mRL
<b>Drill Type:</b> hand auger, solid stem auger, push tube	<b>Northing:</b> 6245404,400 m	<b>Ver. Datum:</b> AHD
<b>Drill Model:</b> Geoprobe 7822DT	<b>Total Depth:</b> 5.1 m	<b>Hor. Proj/Dat:</b> MGA94/GDA94-55H
	<b>Bore Dia.:</b> 165 mm	<b>Pipe Dia.:</b> 50 mm

Drill Method	Sample Interval PID (ppm)	Sample ID	Graphic Log	Classification	LITHOLOGICAL DESCRIPTION	Moisture	Depth (m)	WELL CONSTRUCTION DETAILS
PT			XXXX		MW115 terminated at 5.10 m. Target depth. Groundwater monitoring well installed	W	5	
							6	
							7	
							8	
							9	

2018\_ANZ\_ENV\_01\_WELL\_BURROWSRD\_RP\_200206.GPJ AECOM\_5-00.GDT AECOM\_5-00AA\_GOODMANBURROWS.GLB 26.2.2020

<b>Client:</b> Goodman	<b>Project No:</b> 60623599	<b>Start Date:</b> 30/01/2020
<b>Project:</b> Burrows Industrial Estate (IE)	<b>Logged by:</b> Rebekah Panozzo	<b>End Date:</b> 30/01/2020
<b>Location:</b> Unit 5	<b>Checked by:</b> Alex Latham	<b>Location Meth.:</b> dGPS0.001
<b>Driller:</b> EPOCA	<b>Easting:</b> 331707.577 m	<b>Ground El.:</b> 3.382 mRL
<b>Drill Type:</b> diatube, hand auger, solid stem auger	<b>Northing:</b> 6245414.797 m	<b>Ver. Datum:</b> AHD
<b>Drill Model:</b> Geoprobe 7822DT	<b>Total Depth:</b> 0.78 m	<b>Hor. Proj/Dat:</b> MGA94/GDA94-55H
	<b>Bore Dia.:</b> 165 mm	

Drill Method	Casing	Groundwater Data and Comments	Depth (m)	Graphic Log	Classification	LITHOLOGICAL DESCRIPTION	Moisture	Consistency/Relative Density	Sample Interval	PID (ppm)	Sample ID
DT	None		0			PAVEMENT: CONCRETE slab	D				
HA			0.33 - 0.65			FILL: gravelly SAND brown, coarse to medium grain. Minor inclusions of ironstone gravels (10-15 mm), brick (30-50 mm) and glass fragments (30-40 mm)			0.2		BH116_0.3-0.4
SSA			0.65 - 0.78			FILL: gravelly SAND black, fine to medium grain with slag (10-30 mm), minor ironstone gravel inclusions. at 0.62 m: Brick inclusion (50 mm) from 0.65 m: As above with inclusions of sandstone gravels (30 - 50 mm), orange/white. at 0.70 m: sands becoming black/light brown			0.3		BH116_0.6-0.65
			0.78			Possibly FILL: concrete slab/potential service. BH116 terminated at 0.78 m. Target depth			0.2		BH116_0.75-0.78

**Remarks:** 0.33-0.78 m: No odour/staining observed

2018\_ANZ\_ENV\_02\_SOIL BORE LOG BURROWSRD\_RP\_200206.GPJ AECOM\_5-00.GDT AECOM\_5-00AA\_GOODMANBURROWS.GLB 26.2.2020

<b>Client:</b> Goodman	<b>Project No:</b> 60623599	<b>Start Date:</b> 30/01/2020
<b>Project:</b> Burrows Industrial Estate (IE)	<b>Logged by:</b> Rebekah Panozzo	<b>End Date:</b> 30/01/2020
<b>Location:</b> Unit 5	<b>Checked by:</b> Alex Latham	<b>Location Meth.:</b> dGPS0.001
<b>Driller:</b> EPOCA	<b>Easting:</b> 331695.246 m	<b>Ground El.:</b> 3.367 mRL
<b>Drill Type:</b> diatube, hand auger, solid stem auger	<b>Northing:</b> 6245419.790 m	<b>Ver. Datum:</b> AHD
<b>Drill Model:</b> Geoprobe 7822DT	<b>Total Depth:</b> 4.5 m	<b>Hor. Proj/Dat:</b> MGA94/GDA94-55H
	<b>Bore Dia.:</b> 165 mm	

Drill Method	Casing	Groundwater Data and Comments	Depth (m)	Graphic Log	Classification	LITHOLOGICAL DESCRIPTION	Moisture	Consistency/Relative Density	Sample Interval	PID (ppm)	Sample ID	
DT	None	Standing water level at 2.20 m 30/01/2020	0			PAVEMENT: CONCRETE slab	D					
HA			0.1			FILL: gravelly SAND orange mixed with grey, fine to medium grain. Inclusions of ironstone (10-40 mm), subangular to sub rounded. Minor inclusions of orange sandstone gravels (40 mm) orange and clay.	D		0.1		BH117_0.3-0.4	
			0.1			FILL: SAND black speckled with grey and brown, fine to medium grain, minor inclusions of slag gravels (5 -10 %) (10-20 mm)			0.1		BH117_0.8-0.9	
			0.4			FILL: clayey SAND black, fine to medium grain, minor ironstone gravels. Clay low to medium plasticity			0.4		BH117_1.3-1.4	
						at 1.40 m: concrete gravels (20 mm), minor inclusions of metal nails and glass.						
						at 1.70 m: increasing clay content	M					
				2			FILL: sandy GRAVEL black road base gravels (10 - 15 mm). Sands; brown, coarse grain. Inclusions of tree rootlets (5%), nails, fragments of metal and ceramics (20 mm). Minor glass fragments	W		0.3		BH117_2.2-2.3
						at 2.70 m: sands speckled with grey						
						at 2.80 m: minor concrete gravels						
				3			at 3.40 m: terracotta tile fragment					
									0.5		BH117_3.1-3.2	
			4		SC	clayey SAND light grey/grey					BH117_3.9-4.0	
					CL	sandy CLAY grey, low to medium plasticity.						
											BH117_4.4-4.5	
						BH117 terminated at 4.50 m. Drill bit refusal on concrete slab						

**Remarks:** 0.26-4.50 m: No odour/staining observed

2018\_ANZ\_ENV\_02\_SOIL BORE LOG BURROWSRD\_RP\_200206.GPJ AECOM\_5-00.GDT AECOM\_5-00AA\_GOODMANBURROWS.GLB 26.2.2020

# Appendix G

## Laboratory



CERTIFICATE OF ANALYSIS

**Work Order** : ES1529109 Page : 1 of 69  
**Client** : AECOM Australia Pty Ltd Laboratory : Environmental Division Sydney  
**Contact** : MR ALEX LATHAM Contact : Barbara Hanna  
**Address** : LEVEL 21, 420 George Street Address : 277-289 Woodpark Road Smithfield NSW Australia 2164  
SYDNEY NSW 2000  
**E-mail** : alex.latham@aecom.com E-mail : Barbara.Hanna@aisglobal.com  
**Telephone** : +61 02 8934 0000 Telephone : +61 2 8784 8555  
**Facsimile** : +61 02 8934 0001 Facsimile : +61-2-8784 8500  
**Project** : 60438840/1.1 Burrows QC Level : NEPM 2013 Schedule B(3) and ALS QCS3 requirement  
**Order number** : 60438840/1.1 Date Samples Received : 24-Aug-2015 16:00  
**C-O-C number** : ---- Date Analysis Commenced : 26-Aug-2015  
**Sampler** : KATE PIGRAM, LAUREN GIBB Issue Date : 31-Aug-2015 18:23  
**Site** : ----  
**Quote number** : ---- No. of samples received : 124  
No. of samples analysed : 52

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results
- Descriptive Results



NATA Accredited Laboratory 825

Accredited for compliance with ISO/IEC 17025.

□□□□□□□□□□

This document has been electronically signed by the authorized signatories indicated below. Electronic signing has been carried out in compliance with procedures specified in 21 CFR Part 11.

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Celine Conceicao  
 Gerrad Morgan  
 Pabi Subba  
 Pabi Subba  
 Shaun Spooner

Senior Spectroscopist  
 Asbestos Identifier  
 Senior Organic Chemist  
 Senior Organic Chemist  
 Asbestos Identifier

Sydney Inorganics  
 Newcastle - Asbestos  
 Sydney Inorganics  
 Sydney Organics  
 Newcastle - Asbestos



The analytical procedures used by the Environmental Division have been developed from established internationally recognized procedures such as those published by the USEPA, APHA, AS and NEPM. In house developed procedures are employed in the absence of documented standards or by client request.

Where moisture determination has been performed, results are reported on a dry weight basis.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

When sampling time information is not provided by the client, sampling dates are shown without a time component. In these instances, the time component has been assumed by the laboratory for processing purposes.

Key : CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.  
 LOR = Limit of reporting

- ▲ = This result is computed from individual analyte detections at or above the level of reporting
- ∅ = ALS is not NATA accredited for these tests.

- EA200: Asbestos Identification Samples were analysed by Polarised Light Microscopy including dispersion staining.
- EA200: Negative results for vinyl tiles should be confirmed by an independent analytical technique.

● EA200 Legend

- EA200 'Am' Amosite (brown asbestos)
- EA200 'Ch' Chrysotile (white asbestos)
- EA200 'Cr' Crocidolite (blue asbestos)

● EA200: 'UMF' Unknown Mineral Fibres. "-" indicates fibres detected may or may not be asbestos fibres. Confirmation by alternative techniques is recommended.

● EG005T: Poor precision was obtained for some elements on sample ES1529109 #003 and #015 due to sample heterogeneity. Results have been confirmed by re-extraction and reanalysis.

● EG035T: Poor precision was obtained for Mercury on sample ES1529109 # 3 due to sample heterogeneity. Results have been confirmed by re-extraction and reanalysis.

● EP071: Poor duplicate precision and poor matrix spike recovery for sample QC202 due to sample heterogeneity. Confirmed by re-extraction and re-analysis.

● EP075(SIM): Particular samples required dilution due to the presence of high level contaminants. LOR values have been adjusted accordingly.

● EP075(SIM): Particular samples required dilution due to samples matrix interferences. LOR values have been adjusted accordingly. Poor Matrix Spike recovery due to samples matrix interferences.

● EP068: Particular samples # ES1529109\_19 required dilution prior to analysis due to matrix interferences. LOR values have been adjusted accordingly.

● EA200 'Trace' - Asbestos fibres ("Free Fibres") detected by trace analysis per AS4964. The result can be interpreted that the sample contains detectable 'respirable' asbestos fibres

● Benzo(a)pyrene Toxicity Equivalent Quotient (TEQ) is the sum total of the concentration of the eight carcinogenic PAHs multiplied by their Toxicity Equivalence Factor (TEF) relative to Benzo(a)pyrene. TEF values are provided in brackets as follows: Benz(a)anthracene (0.1), Chrysene (0.01), Benzo(b+j) & Benzo(k)fluoranthene (0.1), Benzo(a)pyrene (1.0), Indeno(1.2.3.cd)pyrene (0.1), Dibenz(a,h)anthracene (1.0), Benzo(g,h,i)perylene (0.01). Less than LOR results for 'TEQ Zero' are treated as zero, for 'TEQ 1/2LOR' are treated as half the reported LOR, and for 'TEQ LOR' are treated as being equal to the reported LOR.

Note: TEQ 1/2LOR and TEQ LOR will calculate as 0.6mg/Kg and 1.2mg/Kg respectively for samples with non-detects for all of the eight TEQ PAHs.

● EA200: For samples larger than 30g, the <2mm fraction may be sub-sampled prior to trace analysis as outlined in ISO23909:2008(E) Sect 6.3.2.2





Sub-Matrix: SOIL (Matrix: SOIL)	BH22_0.3-0.4 [21-Aug-2015] ES1529109-001 Result	BH22_0.8-0.9 [21-Aug-2015] ES1529109-003 Result	BH22_2.2-2.3 [21-Aug-2015] ES1529109-004 Result	BH22_4.5-4.7 [21-Aug-2015] ES1529109-005 Result	BH15_0.4-0.5 [21-Aug-2015] ES1529109-006 Result
<b>EA055: Moisture Content</b>					
^ Moisture Content (dried @ 103°C)	----	21.3	11.2	48.4	11.2
<b>EA200: AS 4964 - 2004 Identification of Asbestos in Soils</b>					
Asbestos Detected	1332-21-4 0.1 g/kg	Yes			No
Asbestos Type	1332-21-4 -	Ch + Am			-
Sample weight (dry)	0.01 g	233			626
APPROVED IDENTIFIER:		G.MORGAN			G.MORGAN
<b>EG005T: Total Metals by ICP-AES</b>					
Arsenic	7440-38-2 5 mg/kg	357	119	13	<5
Cadmium	7440-43-9 1 mg/kg	1	3	<1	<1
Chromium	7440-47-3 2 mg/kg	19	29	20	100
Copper	7440-50-8 5 mg/kg	444	550	6	28
Lead	7439-92-1 5 mg/kg	554	6300	14	5
Nickel	7440-02-0 2 mg/kg	12	2700	7	89
Zinc	7440-66-6 5 mg/kg	862	14500	26	46
<b>EG035T: Total Recoverable Mercury by FIMS</b>					
Mercury	7439-97-6 0.1 mg/kg	0.8	0.3	<0.1	<0.1
<b>EP066: Polychlorinated Biphenyls (PCB)</b>					
Total Polychlorinated biphenyls	0.1 mg/kg				
<b>EP068A: Organochlorine Pesticides (OC)</b>					
alpha-BHC	319-84-6 0.05 mg/kg				
Hexachlorobenzene (HCB)	118-74-1 0.05 mg/kg				
beta-BHC	319-85-7 0.05 mg/kg				
gamma-BHC	58-89-9 0.05 mg/kg				
delta-BHC	319-86-8 0.05 mg/kg				
Heptachlor	76-44-8 0.05 mg/kg				
Aldrin	309-00-2 0.05 mg/kg				
Heptachlor epoxide	1024-57-3 0.05 mg/kg				
^ Total Chlordane (sum)	0.05 mg/kg				
trans-Chlordane	5103-74-2 0.05 mg/kg				
alpha-Endosulfan	959-98-8 0.05 mg/kg				
cis-Chlordane	5103-71-9 0.05 mg/kg				
Dieldrin	60-57-1 0.05 mg/kg				
4,4'-DDE	72-55-9 0.05 mg/kg				
Endrin	72-20-8 0.05 mg/kg				



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Sub-Matrix: SOIL (Matrix: SOIL)	BH22_0_3-0.4 [21-Aug-2015] ES1529109-001 Result	BH22_0.8-0.9 [21-Aug-2015] ES1529109-003 Result	BH22_2.2-2.3 [21-Aug-2015] ES1529109-004 Result	BH22_4.5-4.7 [21-Aug-2015] ES1529109-005 Result	BH15_0.4-0.5 [21-Aug-2015] ES1529109-006 Result
<b>EP068A: Organochlorine Pesticides (OC) - Continued</b>					
beta-Endosulfan	33213-65-9	0.05	mg/kg	.....	.....
^ Endosulfan (sum)	115-29-7	0.05	mg/kg	.....	.....
4,4'-DDD	72-54-8	0.05	mg/kg	.....	.....
Endrin aldehyde	7421-93-4	0.05	mg/kg	.....	.....
Endosulfan sulfate	1031-07-8	0.05	mg/kg	.....	.....
4,4'-DDT	50-29-3	0.2	mg/kg	.....	.....
Endrin ketone	53494-70-5	0.05	mg/kg	.....	.....
Methoxychlor	72-43-5	0.2	mg/kg	.....	.....
^ Sum of Aldrin + Dieldrin	309-00-2/60-57-1	0.05	mg/kg	.....	.....
^ Sum of DDD + DDE + DDT	.....	0.05	mg/kg	.....	.....
<b>EP068B: Organophosphorus Pesticides (OP)</b>					
OP Dichlorvos	62-73-7	0.05	mg/kg	.....	.....
OP Demeton-S-methyl	919-86-8	0.05	mg/kg	.....	.....
Monocrotophos	6923-22-4	0.2	mg/kg	.....	.....
Dimethoate	60-51-5	0.05	mg/kg	.....	.....
Diazinon	333-41-5	0.05	mg/kg	.....	.....
Chlorpyrifos-methyl	5598-13-0	0.05	mg/kg	.....	.....
Parathion-methyl	298-00-0	0.2	mg/kg	.....	.....
Malathion	121-75-5	0.05	mg/kg	.....	.....
Fenthion	55-38-9	0.05	mg/kg	.....	.....
Chlorpyrifos	2921-88-2	0.05	mg/kg	.....	.....
Parathion	56-38-2	0.2	mg/kg	.....	.....
Pirimphos-ethyl	23505-41-1	0.05	mg/kg	.....	.....
Chlorfenvinphos	470-90-6	0.05	mg/kg	.....	.....
Bromophos-ethyl	4824-78-6	0.05	mg/kg	.....	.....
Fenamiphos	22224-92-6	0.05	mg/kg	.....	.....
Prothiofos	34643-46-4	0.05	mg/kg	.....	.....
Ethion	563-12-2	0.05	mg/kg	.....	.....
Carbophenothion	786-19-6	0.05	mg/kg	.....	.....
Azinphos Methyl	86-50-0	0.05	mg/kg	.....	.....
<b>EP074D: Fumigants</b>					
2,2-Dichloropropane	594-20-7	0.5	mg/kg	.....	.....
1,2-Dichloropropane	78-87-5	0.5	mg/kg	.....	.....
cis-1,3-Dichloropropylene	10061-01-5	0.5	mg/kg	.....	.....



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Sub-Matrix: SOIL (Matrix: SOIL)	BH22_0_3-0.4 [21-Aug-2015] ES1529109-001	BH22_0.8-0.9 [21-Aug-2015] ES1529109-003	BH22_2.2-2.3 [21-Aug-2015] ES1529109-004	BH22_4.5-4.7 [21-Aug-2015] ES1529109-005	BH15_0.4-0.5 [21-Aug-2015] ES1529109-006
	Result	Result	Result	Result	Result
<b>EP074D: Fumigants - Continued</b>					
trans-1,3-Dichloropropylene	10061-02-6	0.5	mg/kg	****	****
1,2-Dibromoethane (EDB)	106-93-4	0.5	mg/kg	****	****
<b>EP074E: Halogenated Aliphatic Compounds</b>					
Dichlorodifluoromethane	75-71-8	5	mg/kg	****	****
Chloromethane	74-87-3	5	mg/kg	****	****
Vinyl chloride	75-01-4	5	mg/kg	****	****
Bromomethane	74-83-9	5	mg/kg	****	****
Chloroethane	75-00-3	5	mg/kg	****	****
Trichlorofluoromethane	75-69-4	5	mg/kg	****	****
1,1-Dichloroethene	75-35-4	0.5	mg/kg	****	****
Iodomethane	74-88-4	0.5	mg/kg	****	****
trans-1,2-Dichloroethene	156-60-5	0.5	mg/kg	****	****
cis-1,2-Dichloroethene	75-34-3	0.5	mg/kg	****	****
1,1,1-Trichloroethane	156-59-2	0.5	mg/kg	****	****
1,1-Dichloropropylene	71-55-6	0.5	mg/kg	****	****
Carbon Tetrachloride	563-82-6	0.5	mg/kg	****	****
1,2-Dichloroethane	56-23-5	0.5	mg/kg	****	****
Trichloroethene	107-06-2	0.5	mg/kg	****	****
Dibromomethane	79-01-6	0.5	mg/kg	****	****
1,1,2-Trichloroethane	74-95-3	0.5	mg/kg	****	****
1,3-Dichloropropane	79-00-5	0.5	mg/kg	****	****
Tetrachloroethene	142-28-9	0.5	mg/kg	****	****
1,1,1,2-Tetrachloroethane	127-18-4	0.5	mg/kg	****	****
trans-1,4-Dichloro-2-butene	630-20-6	0.5	mg/kg	****	****
cis-1,4-Dichloro-2-butene	110-57-6	0.5	mg/kg	****	****
1,1,2,2-Tetrachloroethane	1476-11-5	0.5	mg/kg	****	****
1,2,3-Trichloropropane	79-34-5	0.5	mg/kg	****	****
Pentachloroethane	96-18-4	0.5	mg/kg	****	****
1,2-Dibromo-3-chloropropane	76-01-7	0.5	mg/kg	****	****
Hexachlorobutadiene	96-12-8	0.5	mg/kg	****	****
	87-68-3	0.5	mg/kg	****	****
<b>EP074F: Halogenated Aromatic Compounds</b>					
Chlorobenzene	108-90-7	0.5	mg/kg	****	****
Bromobenzene	108-86-1	0.5	mg/kg	****	****



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Sub-Matrix: SOIL (Matrix: SOIL)	BH22_0.3-0.4 [21-Aug-2015] ES1529109-001 Result	BH22_0.8-0.9 [21-Aug-2015] ES1529109-003 Result	BH22_2.2-2.3 [21-Aug-2015] ES1529109-004 Result	BH22_4.5-4.7 [21-Aug-2015] ES1529109-005 Result	BH15_0.4-0.5 [21-Aug-2015] ES1529109-006 Result
<b>EP074F: Halogenated Aromatic Compounds - Continued</b>					
2-Chlorotoluene	95-49-8	0.5	mg/kg	****	****
4-Chlorotoluene	106-43-4	0.5	mg/kg	****	****
1,3-Dichlorobenzene	541-73-1	0.5	mg/kg	****	****
1,4-Dichlorobenzene	106-46-7	0.5	mg/kg	****	****
1,2-Dichlorobenzene	95-50-1	0.5	mg/kg	****	****
1,2,4-Trichlorobenzene	120-82-1	0.5	mg/kg	****	****
1,2,3-Trichlorobenzene	87-61-6	0.5	mg/kg	****	****
<b>EP074G: Trihalomethanes</b>					
Chloroform	67-66-3	0.5	mg/kg	****	****
Bromodichloromethane	75-27-4	0.5	mg/kg	****	****
Dibromochloromethane	124-48-1	0.5	mg/kg	****	****
Bromoform	75-25-2	0.5	mg/kg	****	****
<b>EP075(SIM)A: Phenolic Compounds</b>					
Phenol	108-95-2	0.5	mg/kg	****	****
2-Chlorophenol	95-57-8	0.5	mg/kg	****	****
2-Methylphenol	95-48-7	0.5	mg/kg	****	****
3- & 4-Methylphenol	1319-77-3	1	mg/kg	****	****
2-Nitrophenol	88-75-5	0.5	mg/kg	****	****
2,4-Dimethylphenol	105-67-9	0.5	mg/kg	****	****
2,4-Dichlorophenol	120-83-2	0.5	mg/kg	****	****
2,6-Dichlorophenol	87-65-0	0.5	mg/kg	****	****
4-Chloro-3-methylphenol	59-50-7	0.5	mg/kg	****	****
2,4,6-Trichlorophenol	88-06-2	0.5	mg/kg	****	****
2,4,5-Trichlorophenol	95-95-4	0.5	mg/kg	****	****
Pentachlorophenol	87-86-5	2	mg/kg	****	****
<b>EP075(SIM)B: Polynuclear Aromatic Hydrocarbons</b>					
Naphthalene	91-20-3	0.5	mg/kg	4.6	<0.5
Acenaphthylene	208-96-8	0.5	mg/kg	10.9	<0.5
Acenaphthene	83-32-9	0.5	mg/kg	<4.0	<0.5
Fluorene	86-73-7	0.5	mg/kg	8.5	<0.5
Phenanthrene	85-01-8	0.5	mg/kg	103	<0.5
Anthracene	120-12-7	0.5	mg/kg	29.4	<0.5
Fluoranthene	206-44-0	0.5	mg/kg	160	<0.5
Pyrene	129-00-0	0.5	mg/kg	144	<0.5



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Sub-Matrix: SOIL (Matrix: SOIL)	BH22_0_3-0.4 [21-Aug-2015] ES1529109-001	BH22_0.8-0.9 [21-Aug-2015] ES1529109-003	BH22_2.2-2.3 [21-Aug-2015] ES1529109-004	BH22_4.5-4.7 [21-Aug-2015] ES1529109-005	BH15_0.4-0.5 [21-Aug-2015] ES1529109-006
	Result	Result	Result	Result	Result
<b>EP075(SIM)B: Polynuclear Aromatic Hydrocarbons - Continued</b>					
Benz(a)anthracene	56-55-3	0.5	mg/kg	56.5	<0.5
Chrysene	218-01-9	0.5	mg/kg	49.5	<0.5
Benzo(b+)fluoranthene	205-99-2	0.5	mg/kg	32.5	<0.5
Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	15.1	<0.5
Benzo(a)pyrene	50-32-8	0.5	mg/kg	50.9	<0.5
Indeno(1,2,3-cd)pyrene	193-39-5	0.5	mg/kg	15.8	<0.5
Dibenz(a,h)anthracene	53-70-3	0.5	mg/kg	<4.0	<0.5
Benzo(g,h,i)perylene	191-24-2	0.5	mg/kg	18.0	<0.5
^ Sum of polycyclic aromatic hydrocarbons		0.5	mg/kg	699	<0.5
^ Benzo(a)pyrene TEQ (zero)		0.5	mg/kg	63.6	<0.5
^ Benzo(a)pyrene TEQ (half LOR)		0.5	mg/kg	63.8	0.6
^ Benzo(a)pyrene TEQ (LOR)		0.5	mg/kg	64.1	1.2
<b>EP080/071: Total Petroleum Hydrocarbons</b>					
C6 - C9 Fraction		10	mg/kg	*****	<10
C10 - C14 Fraction		50	mg/kg	*****	<50
C15 - C28 Fraction		100	mg/kg	*****	<100
C29 - C36 Fraction		100	mg/kg	*****	<100
^ C10 - C36 Fraction (sum)		50	mg/kg	*****	<50
<b>EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions</b>					
C6 - C10 Fraction	C6_C10	10	mg/kg	*****	<10
^ C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	10	mg/kg	*****	<10
>C10 - C16 Fraction	>C10_C16	50	mg/kg	*****	<50
>C16 - C34 Fraction		100	mg/kg	*****	<100
>C34 - C40 Fraction		100	mg/kg	*****	<100
^ >C10 - C40 Fraction (sum)		50	mg/kg	*****	<50
^ >C10 - C16 Fraction minus Naphthalene (F2)		50	mg/kg	*****	<50
<b>EP080: BTEXN</b>					
Benzene	71-43-2	0.2	mg/kg	*****	<0.2
Toluene	108-88-3	0.5	mg/kg	*****	<0.5
Ethylbenzene	100-41-4	0.5	mg/kg	*****	<0.5
meta- & para-Xylene	108-38-3	0.5	mg/kg	*****	<0.5
ortho-Xylene	95-47-6	0.5	mg/kg	*****	<0.5
^ Sum of BTEX		0.2	mg/kg	*****	<0.2



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Sub-Matrix: SOIL (Matrix: SOIL)		BH22_0.3-0.4 [21-Aug-2015]		BH22_0.8-0.9 [21-Aug-2015]		BH22_2.2-2.3 [21-Aug-2015]		BH22_4.5-4.7 [21-Aug-2015]		BH15_0.4-0.5 [21-Aug-2015]	
		Result		Result		Result		Result		Result	
<b>EP080: BTEXN - Continued</b>											
^ Total Xylenes	1330-20-7	0.5	mg/kg	-----	-----	<0.5	<0.5	<0.5	<0.5	-----	-----
Naphthalene	91-20-3	1	mg/kg	-----	-----	<1	<1	<1	<1	-----	-----
<b>EP066S: PCB Surrogate</b>											
Decachlorobiphenyl	2051-24-3	0.1	%	-----	-----	-----	-----	-----	-----	-----	-----
<b>EP068S: Organochlorine Pesticide Surrogate</b>											
Dibromo-DDE	21655-73-2	0.05	%	-----	-----	-----	-----	-----	-----	-----	-----
<b>EP068T: Organophosphorus Pesticide Surrogate</b>											
DEF	78-48-8	0.05	%	-----	-----	-----	-----	-----	-----	-----	-----
<b>EP074S: VOC Surrogates</b>											
1,2-Dichloroethane-D4	17060-07-0	0.5	%	-----	-----	-----	-----	-----	-----	-----	-----
Toluene-D8	2037-26-5	0.5	%	-----	-----	-----	-----	-----	-----	-----	-----
o,p-Bromofluorobenzene	460-00-4	0.5	%	-----	-----	-----	-----	-----	-----	-----	-----
<b>EP075(SIM)S: Phenolic Compound Surrogates</b>											
Phenol-d6	13127-88-3	0.5	%	-----	96.9	99.8	99.8	98.4	98.4	94.5	94.5
2-Chlorophenol-D4	93951-73-6	0.5	%	-----	87.4	100	100	102	102	83.5	83.5
2,4,6-Tribromophenol	118-79-6	0.5	%	-----	77.7	74.3	74.3	89.0	89.0	77.3	77.3
<b>EP075(SIM)T: PAH Surrogates</b>											
2-Fluorobiphenyl	321-60-8	0.5	%	-----	92.7	94.2	94.2	103	103	95.4	95.4
Anthracene-d10	1719-06-8	0.5	%	-----	77.9	112	112	115	115	102	102
4-Terphenyl-d14	1718-51-0	0.5	%	-----	115	94.9	94.9	110	110	102	102
<b>EP080S: TPH(V)/BTEX Surrogates</b>											
1,2-Dichloroethane-D4	17060-07-0	0.2	%	-----	-----	91.0	91.0	82.5	82.5	-----	-----
Toluene-D8	2037-26-5	0.2	%	-----	-----	95.4	95.4	85.1	85.1	-----	-----
4-Bromofluorobenzene	460-00-4	0.2	%	-----	-----	90.5	90.5	79.2	79.2	-----	-----



Sub-Matrix: SOIL (Matrix: SOIL)	BH14_0_45-0.55 [21-Aug-2015] ES1529109-007	BH14_1.8-1.9 [21-Aug-2015] ES1529109-008	BH14_4.0-4.1 [21-Aug-2015] ES1529109-009	BH09_4.0-4.2 [21-Aug-2015] ES1529109-010	BH09_4.5-4.6 [21-Aug-2015] ES1529109-011
<b>EA055: Moisture Content</b>	Result	Result	Result	Result	Result
^ Moisture Content (dried @ 103°C)	16.8	20.2	39.2	52.3	52.2
<b>EA200: AS 4964 - 2004 Identification of Asbestos in Soils</b>					
Asbestos Detected	1332-21-4	1332-21-4	1332-21-4	1332-21-4	1332-21-4
Asbestos Type	-	-	-	-	-
Sample weight (dry)	0.01	0.01	0.01	0.01	0.01
<b>APPROVED IDENTIFIER:</b>					
<b>EG005T: Total Metals by ICP-AES</b>					
Arsenic	7440-38-2	30	30	218	19
Cadmium	7440-43-9	3	3	25	<1
Chromium	7440-47-3	29	29	435	31
Copper	7440-50-8	298	298	4340	10
Lead	7439-92-1	478	478	3710	13
Nickel	7440-02-0	23	23	240	10
Zinc	7440-66-6	2060	2060	14200	21
<b>EG035T: Total Recoverable Mercury by FIMS</b>					
Mercury	7439-97-6	<0.1	<0.1	2.7	<0.1
<b>EP066: Polychlorinated Biphenyls (PCB)</b>					
Total Polychlorinated biphenyls	<0.1	<0.1	<0.1	<0.1	<0.1
<b>EP068A: Organochlorine Pesticides (OC)</b>					
alpha-BHC	319-84-6	<0.05	<0.05	<0.05	<0.05
Hexachlorobenzene (HCB)	118-74-1	<0.05	<0.05	<0.05	<0.05
beta-BHC	319-85-7	<0.05	<0.05	<0.05	<0.05
gamma-BHC	58-89-9	<0.05	<0.05	<0.05	<0.05
delta-BHC	319-86-8	<0.05	<0.05	<0.05	<0.05
Heptachlor	76-44-8	<0.05	<0.05	<0.05	<0.05
Aldrin	309-00-2	<0.05	<0.05	<0.05	<0.05
Heptachlor epoxide	1024-57-3	<0.05	<0.05	<0.05	<0.05
^ Total Chlordane (sum)		<0.05	<0.05	<0.05	<0.05
trans-Chlordane	5103-74-2	<0.05	<0.05	<0.05	<0.05
alpha-Endosulfan	959-98-8	<0.05	<0.05	<0.05	<0.05
cis-Chlordane	5103-71-9	<0.05	<0.05	<0.05	<0.05
Dieldrin	60-57-1	<0.05	<0.05	<0.05	<0.05
4,4'-DDE	72-55-9	<0.05	<0.05	<0.05	<0.05
Endrin	72-20-8	<0.05	<0.05	<0.05	<0.05



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Sub-Matrix: SOIL (Matrix: SOIL)	BH14_0.45-0.55 [21-Aug-2015] ES1529109-007	BH14_1.8-1.9 [21-Aug-2015] ES1529109-008	BH14_4.0-4.1 [21-Aug-2015] ES1529109-009	BH09_4.0-4.2 [21-Aug-2015] ES1529109-010	BH09_4.5-4.6 [21-Aug-2015] ES1529109-011
	Result	Result	Result	Result	Result
<b>EP068A: Organochlorine Pesticides (OC) - Continued</b>					
beta-Endosulfan	33213-65-9	0.05	mg/kg	<0.05	----
^ Endosulfan (sum)	115-29-7	0.05	mg/kg	<0.05	----
4,4'-DDD	72-54-8	0.05	mg/kg	<0.05	----
Endrin aldehyde	7421-93-4	0.05	mg/kg	<0.05	----
Endosulfan sulfate	1031-07-8	0.05	mg/kg	<0.05	----
4,4'-DDT	50-29-3	0.2	mg/kg	<0.2	----
Endrin ketone	53494-70-5	0.05	mg/kg	<0.05	----
Methoxychlor	72-43-5	0.2	mg/kg	<0.2	----
^ Sum of Aldrin + Dieldrin	309-00-2/60-57-1	0.05	mg/kg	<0.05	----
^ Sum of DDD + DDE + DDT	----	0.05	mg/kg	<0.05	----
<b>EP068B: Organophosphorus Pesticides (OP)</b>					
OP Dichlorvos	62-73-7	0.05	mg/kg	<0.05	----
OP Demeton-S-methyl	919-86-8	0.05	mg/kg	<0.05	----
Monocrotophos	6923-22-4	0.2	mg/kg	<0.2	----
Dimethoate	60-51-5	0.05	mg/kg	<0.05	----
Diazinon	333-41-5	0.05	mg/kg	<0.05	----
Chlorpyrifos-methyl	5598-13-0	0.05	mg/kg	<0.05	----
Parathion-methyl	298-00-0	0.2	mg/kg	<0.2	----
Malathion	121-75-5	0.05	mg/kg	<0.05	----
Fenthion	55-38-9	0.05	mg/kg	<0.05	----
Chlorpyrifos	2921-88-2	0.05	mg/kg	<0.05	----
Parathion	56-38-2	0.2	mg/kg	<0.2	----
Pirimphos-ethyl	23505-41-1	0.05	mg/kg	<0.05	----
Chlorfenvinphos	470-90-6	0.05	mg/kg	<0.05	----
Bromophos-ethyl	4824-78-6	0.05	mg/kg	<0.05	----
Fenamiphos	22224-92-6	0.05	mg/kg	<0.05	----
Prothiofos	34643-46-4	0.05	mg/kg	<0.05	----
Ethion	563-12-2	0.05	mg/kg	<0.05	----
Carbophenothion	786-19-6	0.05	mg/kg	<0.05	----
Azinphos Methyl	86-50-0	0.05	mg/kg	<0.05	----
<b>EP074D: Fumigants</b>					
2,2-Dichloropropane	594-20-7	0.5	mg/kg	----	<0.5
1,2-Dichloropropane	78-87-5	0.5	mg/kg	----	<0.5
cis-1,3-Dichloropropylene	10061-01-5	0.5	mg/kg	----	<0.5





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Sub-Matrix: SOIL (Matrix: SOIL)	BH14_0_45-0.55 [21-Aug-2015] ES1529109-007 Result	BH14_1.8-1.9 [21-Aug-2015] ES1529109-008 Result	BH14_4.0-4.1 [21-Aug-2015] ES1529109-009 Result	BH09_4.0-4.2 [21-Aug-2015] ES1529109-010 Result	BH09_4.5-4.6 [21-Aug-2015] ES1529109-011 Result
<b>EP074D: Fumigants - Continued</b>					
trans-1,3-Dichloropropylene	10061-02-6	0.5	mg/kg	<0.5	<0.5
1,2-Dibromoethane (EDB)	106-93-4	0.5	mg/kg	<0.5	<0.5
<b>EP074E: Halogenated Aliphatic Compounds</b>					
Dichlorodifluoromethane	75-71-8	5	mg/kg	<5	<5
Chloromethane	74-87-3	5	mg/kg	<5	<5
Vinyl chloride	75-01-4	5	mg/kg	<5	<5
Bromomethane	74-83-9	5	mg/kg	<5	<5
Chloroethane	75-00-3	5	mg/kg	<5	<5
Trichlorofluoromethane	75-69-4	5	mg/kg	<5	<5
1,1-Dichloroethene	75-35-4	0.5	mg/kg	<0.5	<0.5
Iodomethane	74-88-4	0.5	mg/kg	<0.5	<0.5
trans-1,2-Dichloroethene	156-60-5	0.5	mg/kg	<0.5	<0.5
cis-1,2-Dichloroethene	75-34-3	0.5	mg/kg	<0.5	<0.5
1,1,1-Trichloroethane	156-59-2	0.5	mg/kg	<0.5	<0.5
1,1-Dichloropropylene	71-55-6	0.5	mg/kg	<0.5	<0.5
Carbon Tetrachloride	563-58-6	0.5	mg/kg	<0.5	<0.5
1,2-Dichloroethane	56-23-5	0.5	mg/kg	<0.5	<0.5
Trichloroethene	107-06-2	0.5	mg/kg	<0.5	<0.5
Dibromomethane	79-01-6	0.5	mg/kg	<0.5	<0.5
1,1,2-Trichloroethane	74-95-3	0.5	mg/kg	<0.5	<0.5
1,3-Dichloropropane	79-00-5	0.5	mg/kg	<0.5	<0.5
Tetrachloroethene	142-28-9	0.5	mg/kg	<0.5	<0.5
1,1,1,2-Tetrachloroethane	127-18-4	0.5	mg/kg	<0.5	<0.5
trans-1,4-Dichloro-2-butene	630-20-6	0.5	mg/kg	<0.5	<0.5
cis-1,4-Dichloro-2-butene	110-57-6	0.5	mg/kg	<0.5	<0.5
1,1,2,2-Tetrachloroethane	1476-11-5	0.5	mg/kg	<0.5	<0.5
1,2,3-Trichloropropane	79-34-5	0.5	mg/kg	<0.5	<0.5
Pentachloroethane	96-18-4	0.5	mg/kg	<0.5	<0.5
1,2-Dibromo-3-chloropropane	76-01-7	0.5	mg/kg	<0.5	<0.5
Hexachlorobutadiene	96-12-8	0.5	mg/kg	<0.5	<0.5
	87-68-3	0.5	mg/kg	<0.5	<0.5
<b>EP074F: Halogenated Aromatic Compounds</b>					
Chlorobenzene	108-90-7	0.5	mg/kg	<0.5	<0.5
Bromobenzene	108-86-1	0.5	mg/kg	<0.5	<0.5



Sub-Matrix: SOIL (Matrix: SOIL)	BH14_0_45-0.55 [21-Aug-2015] ES1529109-007	BH14_1.8-1.9 [21-Aug-2015] ES1529109-008	BH14_4.0-4.1 [21-Aug-2015] ES1529109-009	BH09_4.0-4.2 [21-Aug-2015] ES1529109-010	BH09_4.5-4.6 [21-Aug-2015] ES1529109-011
	Result	Result	Result	Result	Result
<b>EP074F: Halogenated Aromatic Compounds - Continued</b>					
2-Chlorotoluene	95-49-8 0.5 mg/kg	*****	<0.5	****	<0.5
4-Chlorotoluene	106-43-4 0.5 mg/kg	*****	<0.5	****	<0.5
1,3-Dichlorobenzene	541-73-1 0.5 mg/kg	*****	<0.5	****	<0.5
1,4-Dichlorobenzene	106-46-7 0.5 mg/kg	*****	<0.5	****	<0.5
1,2-Dichlorobenzene	95-50-1 0.5 mg/kg	*****	<0.5	****	<0.5
1,2,4-Trichlorobenzene	120-82-1 0.5 mg/kg	*****	<0.5	****	<0.5
1,2,3-Trichlorobenzene	87-61-6 0.5 mg/kg	*****	<0.5	****	<0.5
<b>EP074G: Trihalomethanes</b>					
Chloroform	67-66-3 0.5 mg/kg	*****	<0.5	****	<0.5
Bromodichloromethane	75-27-4 0.5 mg/kg	*****	<0.5	****	<0.5
Dibromochloromethane	124-48-1 0.5 mg/kg	*****	<0.5	****	<0.5
Bromoform	75-25-2 0.5 mg/kg	*****	<0.5	****	<0.5
<b>EP075(SIM)A: Phenolic Compounds</b>					
Phenol	108-95-2 0.5 mg/kg	*****	<0.5	****	<0.8
2-Chlorophenol	95-57-8 0.5 mg/kg	*****	<0.5	****	<0.8
2-Methylphenol	95-48-7 0.5 mg/kg	*****	<0.5	****	<0.8
3- & 4-Methylphenol	1319-77-3 1 mg/kg	*****	<1	****	<2
2-Nitrophenol	88-75-5 0.5 mg/kg	*****	<0.5	****	<0.8
2,4-Dimethylphenol	105-67-9 0.5 mg/kg	*****	<0.5	****	<0.8
2,4-Dichlorophenol	120-83-2 0.5 mg/kg	*****	<0.5	****	<0.8
2,6-Dichlorophenol	87-65-0 0.5 mg/kg	*****	<0.5	****	<0.8
4-Chloro-3-methylphenol	59-50-7 0.5 mg/kg	*****	<0.5	****	<0.8
2,4,6-Trichlorophenol	88-06-2 0.5 mg/kg	*****	<0.5	****	<0.8
2,4,5-Trichlorophenol	95-95-4 0.5 mg/kg	*****	<0.5	****	<0.8
Pentachlorophenol	87-86-5 2 mg/kg	*****	<2	****	<2
<b>EP075(SIM)B: Polynuclear Aromatic Hydrocarbons</b>					
Naphthalene	91-20-3 0.5 mg/kg	<0.5	****	<0.8	<0.8
Acenaphthylene	208-96-8 0.5 mg/kg	<0.5	****	<0.8	<0.8
Acenaphthene	83-32-9 0.5 mg/kg	<0.5	****	<0.8	<0.8
Fluorene	86-73-7 0.5 mg/kg	<0.5	****	<0.8	<0.8
Phenanthrene	85-01-8 0.5 mg/kg	<0.5	****	<0.8	<0.8
Anthracene	120-12-7 0.5 mg/kg	<0.5	****	<0.8	<0.8
Fluoranthene	206-44-0 0.5 mg/kg	<0.5	****	<0.8	<0.8
Pyrene	129-00-0 0.5 mg/kg	<0.5	****	<0.8	<0.8



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Sub-Matrix: SOIL (Matrix: SOIL)		BH14_0_45-0.55 [21-Aug-2015] ES1529109-007 Result	BH14_1.8-1.9 [21-Aug-2015] ES1529109-008 Result	BH14_4.0-4.1 [21-Aug-2015] ES1529109-009 Result	BH09_4.0-4.2 [21-Aug-2015] ES1529109-010 Result	BH09_4.5-4.6 [21-Aug-2015] ES1529109-011 Result
<b>EP075(SIM)B: Polynuclear Aromatic Hydrocarbons - Continued</b>						
Benz(a)anthracene	56-55-3	0.5	mg/kg	0.5	<0.8	<0.8
Chrysene	218-01-9	0.5	mg/kg	<0.5	<0.8	<0.8
Benzo(b+)fluoranthene	205-99-2	0.5	mg/kg	<0.5	<0.8	<0.8
Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	<0.5	<0.8	<0.8
Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	<0.8	<0.8
Indeno(1,2,3-cd)pyrene	193-39-5	0.5	mg/kg	<0.5	<0.8	<0.8
Dibenz(a,h)anthracene	53-70-3	0.5	mg/kg	<0.5	<0.8	<0.8
Benzo(g,h,i)perylene	191-24-2	0.5	mg/kg	<0.5	<0.8	<0.8
^ Sum of polycyclic aromatic hydrocarbons		0.5	mg/kg	<0.5	<0.5	<0.5
^ Benzo(a)pyrene TEQ (zero)		0.5	mg/kg	<0.5	<0.5	<0.5
^ Benzo(a)pyrene TEQ (half LOR)		0.5	mg/kg	0.6	0.6	0.6
^ Benzo(a)pyrene TEQ (LOR)		0.5	mg/kg	1.2	1.2	1.2
<b>EP080/071: Total Petroleum Hydrocarbons</b>						
C6 - C9 Fraction		10	mg/kg	<10	<10	<10
C10 - C14 Fraction		50	mg/kg	<50	<50	<50
C15 - C28 Fraction		100	mg/kg	<100	<100	<100
C29 - C36 Fraction		100	mg/kg	<100	<100	<100
^ C10 - C36 Fraction (sum)		50	mg/kg	<50	<50	<50
<b>EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions</b>						
C6 - C10 Fraction	C6_C10	10	mg/kg	<10	<10	<10
^ C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	10	mg/kg	<10	<10	<10
>C10 - C16 Fraction	>C10_C16	50	mg/kg	<50	<50	<50
>C16 - C34 Fraction		100	mg/kg	<100	<100	<100
>C34 - C40 Fraction		100	mg/kg	<100	<100	<100
^ >C10 - C40 Fraction (sum)		50	mg/kg	<50	<50	<50
^ >C10 - C16 Fraction minus Naphthalene (F2)		50	mg/kg	<50	<50	<50
<b>EP080: BTEXN</b>						
Benzene	71-43-2	0.2	mg/kg	<0.2	<0.2	<0.2
Toluene	108-88-3	0.5	mg/kg	<0.5	<0.5	<0.5
Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	<0.5	<0.5
meta- & para-Xylene	108-38-3	0.5	mg/kg	<0.5	<0.5	<0.5
ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	<0.5	<0.5
^ Sum of BTEX		0.2	mg/kg	<0.2	<0.2	<0.2



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Sub-Matrix: SOIL (Matrix: SOIL)		BH14_0_45-0.55 [21-Aug-2015]	BH14_1.8-1.9 [21-Aug-2015]	BH14_4.0-4.1 [21-Aug-2015]	BH09_4.0-4.2 [21-Aug-2015]	BH09_4.5-4.6 [21-Aug-2015]
		ES1529109-007 Result	ES1529109-008 Result	ES1529109-009 Result	ES1529109-010 Result	ES1529109-011 Result
<b>EP080: BTEXN - Continued</b>						
^ Total Xylenes	1330-20-7	0.5	mg/kg	-----	<0.5	<0.5
Naphthalene	91-20-3	1	mg/kg	-----	<1	<1
<b>EP066S: PCB Surrogate</b>						
Decachlorobiphenyl	2051-24-3	0.1	%	76.2	-----	-----
<b>EP068S: Organochlorine Pesticide Surrogate</b>						
Dibromo-DDE	21655-73-2	0.05	%	80.6	-----	-----
<b>EP068T: Organophosphorus Pesticide Surrogate</b>						
DEF	78-48-8	0.05	%	84.6	-----	-----
<b>EP074S: VOC Surrogates</b>						
1,2-Dichloroethane-D4	17060-07-0	0.5	%	-----	69.5	68.4
Toluene-D8	2037-26-5	0.5	%	-----	84.3	82.1
o,p-Bromofluorobenzene	460-00-4	0.5	%	-----	81.2	77.6
<b>EP075(SIM)S: Phenolic Compound Surrogates</b>						
Phenol-d6	13127-88-3	0.5	%	104	101	104
2-Chlorophenol-D4	93951-73-6	0.5	%	94.9	97.6	98.1
2,4,6-Tribromophenol	118-79-6	0.5	%	78.4	87.1	86.7
<b>EP075(SIM)T: PAH Surrogates</b>						
2-Fluorobiphenyl	321-60-8	0.5	%	99.6	93.7	96.5
Anthracene-d10	1719-06-8	0.5	%	109	105	105
4-Terphenyl-d14	1718-51-0	0.5	%	102	99.6	101
<b>EP080S: TPH(V)/BTEX Surrogates</b>						
1,2-Dichloroethane-D4	17060-07-0	0.2	%	-----	85.9	80.5
Toluene-D8	2037-26-5	0.2	%	-----	88.0	85.7
4-Bromofluorobenzene	460-00-4	0.2	%	-----	88.1	82.3



Sub-Matrix: SOIL (Matrix: SOIL)	BH06_1.0-1.1 [21-Aug-2015] ES1529109-012	BH10_4.0-4.1 [21-Aug-2015] ES1529109-013	QC101 [21-Aug-2015] ES1529109-014	BH04_0.5-0.6 [20-Aug-2015] ES1529109-015	BH04_1.0-1.1 [20-Aug-2015] ES1529109-016
<b>EA055: Moisture Content</b>					
^ Moisture Content (dried @ 103°C)	9.9	45.9	17.1	27.4	40.5
<b>EA200: AS 4964 - 2004 Identification of Asbestos in Soils</b>					
Asbestos Detected	No				
Asbestos Type	-				
Sample weight (dry)	175				
APPROVED IDENTIFIER:	S.SPOONER				
<b>EG005T: Total Metals by ICP-AES</b>					
Arsenic	13	26	80	52	311
Cadmium	<1	<1	9	2	1
Chromium	8	31	106	28	105
Copper	71	69	3150	218	293
Lead	313	189	3480	1030	10400
Nickel	6	16	214	48	24
Zinc	366	417	4780	1590	1170
<b>EG035T: Total Recoverable Mercury by FIMS</b>					
Mercury	0.3	<0.1	0.8	1.0	1.6
<b>EP066: Polychlorinated Biphenyls (PCB)</b>					
Total Polychlorinated biphenyls	<0.1				
<b>EP068A: Organochlorine Pesticides (OC)</b>					
alpha-BHC	<0.05				
Hexachlorobenzene (HCB)	<0.05				
beta-BHC	<0.05				
gamma-BHC	<0.05				
delta-BHC	<0.05				
Heptachlor	<0.05				
Aldrin	<0.05				
Heptachlor epoxide	<0.05				
^ Total Chlordane (sum)	<0.05				
trans-Chlordane	<0.05				
alpha-Endosulfan	<0.05				
cis-Chlordane	<0.05				
Dieldrin	<0.05				
4,4'-DDE	<0.05				
Endrin	<0.05				



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Sub-Matrix: SOIL (Matrix: SOIL)	BH06_1.0-1.1 [21-Aug-2015] ES1529109-012 Result	BH10_4.0-4.1 [21-Aug-2015] ES1529109-013 Result	QC101 [21-Aug-2015] ES1529109-014 Result	BH04_0.5-0.6 [20-Aug-2015] ES1529109-015 Result	BH04_1.0-1.1 [20-Aug-2015] ES1529109-016 Result
<b>EP068A: Organochlorine Pesticides (OC) - Continued</b>					
beta-Endosulfan	33213-65-9	0.05	mg/kg	<0.05	****
^ Endosulfan (sum)	115-29-7	0.05	mg/kg	<0.05	****
4,4'-DDD	72-54-8	0.05	mg/kg	<0.05	****
Endrin aldehyde	7421-93-4	0.05	mg/kg	<0.05	****
Endosulfan sulfate	1031-07-8	0.05	mg/kg	<0.05	****
4,4'-DDT	50-29-3	0.2	mg/kg	<0.2	****
Endrin ketone	53494-70-5	0.05	mg/kg	<0.05	****
Methoxychlor	72-43-5	0.2	mg/kg	<0.2	****
^ Sum of Aldrin + Dieldrin	309-00-2/60-57-1	0.05	mg/kg	<0.05	****
^ Sum of DDD + DDE + DDT	****	0.05	mg/kg	<0.05	****
<b>EP068B: Organophosphorus Pesticides (OP)</b>					
OP Dichlorvos	62-73-7	0.05	mg/kg	<0.05	****
OP Demeton-S-methyl	919-86-8	0.05	mg/kg	<0.05	****
Monocrotophos	6923-22-4	0.2	mg/kg	<0.2	****
Dimethoate	60-51-5	0.05	mg/kg	<0.05	****
Diazinon	333-41-5	0.05	mg/kg	<0.05	****
Chlorpyrifos-methyl	5598-13-0	0.05	mg/kg	<0.05	****
Parathion-methyl	298-00-0	0.2	mg/kg	<0.2	****
Malathion	121-75-5	0.05	mg/kg	<0.05	****
Fenthion	55-38-9	0.05	mg/kg	<0.05	****
Chlorpyrifos	2921-88-2	0.05	mg/kg	<0.05	****
Parathion	56-38-2	0.2	mg/kg	<0.2	****
Pirimphos-ethyl	23505-41-1	0.05	mg/kg	<0.05	****
Chlorfenvinphos	470-90-6	0.05	mg/kg	<0.05	****
Bromophos-ethyl	4824-78-6	0.05	mg/kg	<0.05	****
Fenamiphos	22224-92-6	0.05	mg/kg	<0.05	****
Prothiofos	34643-46-4	0.05	mg/kg	<0.05	****
Ethion	563-12-2	0.05	mg/kg	<0.05	****
Carbophenothion	786-19-6	0.05	mg/kg	<0.05	****
Azinphos Methyl	86-50-0	0.05	mg/kg	<0.05	****
<b>EP074D: Fumigants</b>					
2,2-Dichloropropane	594-20-7	0.5	mg/kg	****	****
1,2-Dichloropropane	78-87-5	0.5	mg/kg	****	****
cis-1,3-Dichloropropylene	10061-01-5	0.5	mg/kg	****	****



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Sub-Matrix: SOIL (Matrix: SOIL)	BH06_1.0-1.1 [21-Aug-2015] ES1529109-012 Result	BH10_4.0-4.1 [21-Aug-2015] ES1529109-013 Result	QC101 [21-Aug-2015] ES1529109-014 Result	BH04_0.5-0.6 [20-Aug-2015] ES1529109-015 Result	BH04_1.0-1.1 [20-Aug-2015] ES1529109-016 Result
<b>EP074D: Fumigants - Continued</b>					
trans-1,3-Dichloropropylene	10061-02-6	0.5	mg/kg	****	****
1,2-Dibromoethane (EDB)	106-93-4	0.5	mg/kg	****	****
<b>EP074E: Halogenated Aliphatic Compounds</b>					
Dichlorodifluoromethane	75-71-8	5	mg/kg	****	****
Chloromethane	74-87-3	5	mg/kg	****	****
Vinyl chloride	75-01-4	5	mg/kg	****	****
Bromomethane	74-83-9	5	mg/kg	****	****
Chloroethane	75-00-3	5	mg/kg	****	****
Trichlorofluoromethane	75-69-4	5	mg/kg	****	****
1,1-Dichloroethene	75-35-4	0.5	mg/kg	****	****
Iodomethane	74-88-4	0.5	mg/kg	****	****
trans-1,2-Dichloroethene	156-60-5	0.5	mg/kg	****	****
cis-1,2-Dichloroethene	75-34-3	0.5	mg/kg	****	****
1,1,1-Trichloroethane	156-59-2	0.5	mg/kg	****	****
1,1-Dichloropropylene	71-55-6	0.5	mg/kg	****	****
Carbon Tetrachloride	563-58-6	0.5	mg/kg	****	****
1,2-Dichloroethane	56-23-5	0.5	mg/kg	****	****
Trichloroethene	107-06-2	0.5	mg/kg	****	****
Dibromomethane	79-01-6	0.5	mg/kg	****	****
1,1,2-Trichloroethane	74-95-3	0.5	mg/kg	****	****
1,3-Dichloropropane	79-00-5	0.5	mg/kg	****	****
Tetrachloroethene	142-28-9	0.5	mg/kg	****	****
1,1,1,2-Tetrachloroethane	127-18-4	0.5	mg/kg	****	****
trans-1,4-Dichloro-2-butene	630-20-6	0.5	mg/kg	****	****
cis-1,4-Dichloro-2-butene	110-57-6	0.5	mg/kg	****	****
1,1,2,2-Tetrachloroethane	1476-11-5	0.5	mg/kg	****	****
1,2,3-Trichloropropane	79-34-5	0.5	mg/kg	****	****
Pentachloroethane	96-18-4	0.5	mg/kg	****	****
1,2-Dibromo-3-chloropropane	76-01-7	0.5	mg/kg	****	****
Hexachlorobutadiene	96-12-8	0.5	mg/kg	****	****
	87-68-3	0.5	mg/kg	****	****
<b>EP074F: Halogenated Aromatic Compounds</b>					
Chlorobenzene	108-90-7	0.5	mg/kg	****	****
Bromobenzene	108-86-1	0.5	mg/kg	****	****



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Sub-Matrix: SOIL (Matrix: SOIL)	BH06_1.0-1.1 [21-Aug-2015] ES1529109-012 Result	BH10_4.0-4.1 [21-Aug-2015] ES1529109-013 Result	QC101 [21-Aug-2015] ES1529109-014 Result	BH04_0.5-0.6 [20-Aug-2015] ES1529109-015 Result	BH04_1.0-1.1 [20-Aug-2015] ES1529109-016 Result
<b>EP074F: Halogenated Aromatic Compounds - Continued</b>					
2-Chlorotoluene	95-49-8	0.5	mg/kg	****	****
4-Chlorotoluene	106-43-4	0.5	mg/kg	****	****
1,3-Dichlorobenzene	541-73-1	0.5	mg/kg	****	****
1,4-Dichlorobenzene	106-46-7	0.5	mg/kg	****	****
1,2-Dichlorobenzene	95-50-1	0.5	mg/kg	****	****
1,2,4-Trichlorobenzene	120-82-1	0.5	mg/kg	****	****
1,2,3-Trichlorobenzene	87-61-6	0.5	mg/kg	****	****
<b>EP074G: Trihalomethanes</b>					
Chloroform	67-66-3	0.5	mg/kg	****	****
Bromodichloromethane	75-27-4	0.5	mg/kg	****	****
Dibromochloromethane	124-48-1	0.5	mg/kg	****	****
Bromoform	75-25-2	0.5	mg/kg	****	****
<b>EP075(SIM)A: Phenolic Compounds</b>					
Phenol	108-95-2	0.5	mg/kg	****	****
2-Chlorophenol	95-57-8	0.5	mg/kg	****	****
2-Methylphenol	95-48-7	0.5	mg/kg	****	****
3- & 4-Methylphenol	1319-77-3	1	mg/kg	****	****
2-Nitrophenol	88-75-5	0.5	mg/kg	****	****
2,4-Dimethylphenol	105-67-9	0.5	mg/kg	****	****
2,4-Dichlorophenol	120-83-2	0.5	mg/kg	****	****
2,6-Dichlorophenol	87-65-0	0.5	mg/kg	****	****
4-Chloro-3-methylphenol	59-50-7	0.5	mg/kg	****	****
2,4,6-Trichlorophenol	88-06-2	0.5	mg/kg	****	****
2,4,5-Trichlorophenol	95-95-4	0.5	mg/kg	****	****
Pentachlorophenol	87-86-5	2	mg/kg	****	****
<b>EP075(SIM)B: Polynuclear Aromatic Hydrocarbons</b>					
Naphthalene	91-20-3	0.5	mg/kg	****	0.8
Acenaphthylene	208-96-8	0.5	mg/kg	****	3.2
Acenaphthene	83-32-9	0.5	mg/kg	****	<0.5
Fluorene	86-73-7	0.5	mg/kg	****	<0.5
Phenanthrene	85-01-8	0.5	mg/kg	****	1.4
Anthracene	120-12-7	0.5	mg/kg	****	17.0
Fluoranthene	206-44-0	0.5	mg/kg	****	5.4
Pyrene	129-00-0	0.5	mg/kg	****	25.3
					2.9





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Sub-Matrix: SOIL (Matrix: SOIL)	BH06_1.0-1.1 [21-Aug-2015] ES1529109-012 Result	BH10_4.0-4.1 [21-Aug-2015] ES1529109-013 Result	QC101 [21-Aug-2015] ES1529109-014 Result	BH04_0.5-0.6 [20-Aug-2015] ES1529109-015 Result	BH04_1.0-1.1 [20-Aug-2015] ES1529109-016 Result
<b>EP075(SIM)B: Polynuclear Aromatic Hydrocarbons - Continued</b>					
Benz(a)anthracene	56-55-3	0.5	mg/kg	-----	-----
Chrysene	218-01-9	0.5	mg/kg	-----	-----
Benzo(b+)fluoranthene	205-99-2	205-82-3	0.5	mg/kg	-----
Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	-----	-----
Benzo(a)pyrene	50-32-8	0.5	mg/kg	-----	-----
Indeno(1,2,3-cd)pyrene	193-39-5	0.5	mg/kg	-----	-----
Dibenz(a,h)anthracene	53-70-3	0.5	mg/kg	-----	-----
Benzo(g,h,i)perylene	191-24-2	0.5	mg/kg	-----	-----
^ Sum of polycyclic aromatic hydrocarbons	-----	0.5	mg/kg	-----	-----
^ Benzo(a)pyrene TEQ (zero)	-----	0.5	mg/kg	-----	-----
^ Benzo(a)pyrene TEQ (half LOR)	-----	0.5	mg/kg	-----	-----
^ Benzo(a)pyrene TEQ (LOR)	-----	0.5	mg/kg	-----	-----
<b>EP080/071: Total Petroleum Hydrocarbons</b>					
C6 - C9 Fraction	-----	10	mg/kg	-----	-----
C10 - C14 Fraction	-----	50	mg/kg	-----	-----
C15 - C28 Fraction	-----	100	mg/kg	-----	-----
C29 - C36 Fraction	-----	100	mg/kg	-----	-----
^ C10 - C36 Fraction (sum)	-----	50	mg/kg	-----	-----
<b>EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions</b>					
C6 - C10 Fraction	C6_C10	10	mg/kg	-----	-----
^ C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	10	mg/kg	-----	-----
>C10 - C16 Fraction	>C10_C16	50	mg/kg	-----	-----
>C16 - C34 Fraction	-----	100	mg/kg	-----	-----
>C34 - C40 Fraction	-----	100	mg/kg	-----	-----
^ >C10 - C40 Fraction (sum)	-----	50	mg/kg	-----	-----
^ >C10 - C16 Fraction minus Naphthalene (F2)	-----	50	mg/kg	-----	-----
<b>EP080: BTEXN</b>					
Benzene	71-43-2	0.2	mg/kg	-----	-----
Toluene	108-88-3	0.5	mg/kg	-----	-----
Ethylbenzene	100-41-4	0.5	mg/kg	-----	-----
meta- & para-Xylene	108-38-3	106-42-3	0.5	mg/kg	-----
ortho-Xylene	95-47-6	0.5	mg/kg	-----	-----
^ Sum of BTEX	-----	0.2	mg/kg	-----	-----



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Sub-Matrix: SOIL (Matrix: SOIL)	BH06_1.0-1.1 [21-Aug-2015]	BH10_4.0-4.1 [21-Aug-2015]	QC101 [21-Aug-2015]	BH04_0.5-0.6 [20-Aug-2015]	BH04_1.0-1.1 [20-Aug-2015]
	ES1529109-012 Result	ES1529109-013 Result	ES1529109-014 Result	ES1529109-015 Result	ES1529109-016 Result
<b>EP080: BTEXN - Continued</b>					
^ Total Xylenes	1330-20-7 0.5 mg/kg	<0.5	-----	<0.5	-----
Naphthalene	91-20-3 1 mg/kg	<1	-----	<1	-----
<b>EP066S: PCB Surrogate</b>					
Decachlorobiphenyl	2051-24-3 0.1 %	-----	-----	-----	-----
<b>EP068S: Organochlorine Pesticide Surrogate</b>					
Dibromo-DDE	21655-73-2 0.05 %	-----	-----	-----	-----
<b>EP068T: Organophosphorus Pesticide Surrogate</b>					
DEF	78-48-8 0.05 %	-----	-----	-----	-----
<b>EP074S: VOC Surrogates</b>					
1,2-Dichloroethane-D4	17060-07-0 0.5 %	-----	-----	-----	-----
Toluene-D8	2037-26-5 0.5 %	-----	-----	-----	-----
1,2,4-Bromofluorobenzene	460-00-4 0.5 %	-----	-----	-----	-----
<b>EP075(SIM)S: Phenolic Compound Surrogates</b>					
Phenol-d6	13127-88-3 0.5 %	-----	102	89.1	89.6
2-Chlorophenol-D4	93951-73-6 0.5 %	-----	104	107	100
2,4,6-Tribromophenol	118-79-6 0.5 %	-----	78.6	117	104
<b>EP075(SIM)T: PAH Surrogates</b>					
2-Fluorobiphenyl	321-60-8 0.5 %	-----	100	88.1	90.2
Anthracene-d10	1719-06-8 0.5 %	-----	104	123	117
4-Terphenyl-d14	1718-51-0 0.5 %	-----	102	97.2	92.7
<b>EP080S: TPH(V)/BTEX Surrogates</b>					
1,2-Dichloroethane-D4	17060-07-0 0.2 %	-----	-----	94.6	-----
Toluene-D8	2037-26-5 0.2 %	-----	-----	101	-----
4-Bromofluorobenzene	460-00-4 0.2 %	-----	-----	93.2	-----



Sub-Matrix: SOIL (Matrix: SOIL)	BH04_2.3-2.4 [20-Aug-2015] ES1529109-017	BH05_0.5-0.6 [20-Aug-2015] ES1529109-018	BH07A_0.5-0.6 [20-Aug-2015] ES1529109-019	BH11_0.2-0.3 [20-Aug-2015] ES1529109-020	BH11_2.3-2.4 [20-Aug-2015] ES1529109-021
Result	Result	Result	Result	Result	Result
<b>EA055: Moisture Content</b>					
Moisture Content (dried @ 103°C)	53.7	27.1	32.2	14.3	32.9
<b>EA200: AS 4964 - 2004 Identification of Asbestos in Soils</b>					
Asbestos Detected	1332-21-4	1332-21-4	1332-21-4	1332-21-4	1332-21-4
Asbestos Type	1332-21-4	1332-21-4	1332-21-4	1332-21-4	1332-21-4
Sample weight (dry)	0.01	0.01	0.01	0.01	0.01
APPROVED IDENTIFIER:			S.SPOONER		
<b>EG005T: Total Metals by ICP-AES</b>					
Arsenic	14	13	84	26	56
Cadmium	<1	3	13	2	5
Chromium	26	20	121	39	125
Copper	17	296	4410	482	23300
Lead	67	1470	6310	3480	2590
Nickel	4	26	80	96	226
Zinc	46	4070	20400	1540	6980
<b>EG035T: Total Recoverable Mercury by FIMS</b>					
Mercury	<0.1	0.9	0.7	0.5	0.1
<b>EP066: Polychlorinated Biphenyls (PCB)</b>					
Total Polychlorinated biphenyls	<0.1	<0.1	<0.1	<0.1	<0.1
<b>EP068A: Organochlorine Pesticides (OC)</b>					
alpha-BHC	0.05	<0.05	<0.25	<0.25	<0.25
Hexachlorobenzene (HCB)	0.05	<0.05	<0.25	<0.25	<0.25
beta-BHC	0.05	<0.05	<0.25	<0.25	<0.25
gamma-BHC	0.05	<0.05	<0.25	<0.25	<0.25
delta-BHC	0.05	<0.05	<0.25	<0.25	<0.25
Heptachlor	0.05	<0.05	<0.25	<0.25	<0.25
Aldrin	0.05	<0.05	<0.25	<0.25	<0.25
Heptachlor epoxide	0.05	<0.05	<0.25	<0.25	<0.25
^ Total Chlordane (sum)	0.05	<0.05	<0.25	<0.25	<0.25
trans-Chlordane	0.05	<0.05	<0.25	<0.25	<0.25
alpha-Endosulfan	0.05	<0.05	<0.25	<0.25	<0.25
cis-Chlordane	0.05	<0.05	<0.25	<0.25	<0.25
Dieldrin	0.05	<0.05	<0.25	<0.25	<0.25
4.4'-DDE	0.05	<0.05	<0.25	<0.25	<0.25
Endrin	0.05	<0.05	<0.25	<0.25	<0.25



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Sub-Matrix: SOIL (Matrix: SOIL)	BH04_2.3-2.4 [20-Aug-2015] ES1529109-017 Result	BH05_0.5-0.6 [20-Aug-2015] ES1529109-018 Result	BH07A_0.5-0.6 [20-Aug-2015] ES1529109-019 Result	BH11_0.2-0.3 [20-Aug-2015] ES1529109-020 Result	BH11_2.3-2.4 [20-Aug-2015] ES1529109-021 Result
<b>EP068A: Organochlorine Pesticides (OC) - Continued</b>					
beta-Endosulfan	33213-65-9	0.05	mg/kg	<0.25	<0.25
^ Endosulfan (sum)	115-29-7	0.05	mg/kg	<0.25	<0.25
4,4'-DDD	72-54-8	0.05	mg/kg	<0.25	<0.25
Endrin aldehyde	7421-93-4	0.05	mg/kg	<0.25	<0.25
Endosulfan sulfate	1031-07-8	0.05	mg/kg	<0.25	<0.25
4,4'-DDT	50-29-3	0.2	mg/kg	<1.0	<1.0
Endrin ketone	53494-70-5	0.05	mg/kg	<0.25	<0.25
Methoxychlor	72-43-5	0.2	mg/kg	<1.0	<1.0
^ Sum of Aldrin + Dieldrin	309-00-2/60-57-1	0.05	mg/kg	<0.25	<0.25
^ Sum of DDD + DDE + DDT	----	0.05	mg/kg	<0.25	<0.25
<b>EP068B: Organophosphorus Pesticides (OP)</b>					
OPDichlorvos	62-73-7	0.05	mg/kg	<0.25	<0.25
NDemeton-S-methyl	919-86-8	0.05	mg/kg	<0.25	<0.25
Monocrotophos	6923-22-4	0.2	mg/kg	<1.0	<1.0
Dimethoate	60-51-5	0.05	mg/kg	<0.25	<0.25
Diazinon	333-41-5	0.05	mg/kg	<0.25	<0.25
Chlorpyrifos-methyl	5598-13-0	0.05	mg/kg	<0.25	<0.25
Parathion-methyl	298-00-0	0.2	mg/kg	<1.0	<1.0
Malathion	121-75-5	0.05	mg/kg	<0.25	<0.25
Fenthion	55-38-9	0.05	mg/kg	<0.25	<0.25
Chlorpyrifos	2921-88-2	0.05	mg/kg	<0.25	<0.25
Parathion	56-38-2	0.2	mg/kg	<1.0	<1.0
Pirimphos-ethyl	23505-41-1	0.05	mg/kg	<0.25	<0.25
Chlorfenvinphos	470-90-6	0.05	mg/kg	<0.25	<0.25
Bromophos-ethyl	4824-78-6	0.05	mg/kg	<0.25	<0.25
Fenamiphos	22224-92-6	0.05	mg/kg	<0.25	<0.25
Prothiofos	34643-46-4	0.05	mg/kg	<0.25	<0.25
Ethion	563-12-2	0.05	mg/kg	<0.25	<0.25
Carbophenothion	786-19-6	0.05	mg/kg	<0.25	<0.25
Azinphos Methyl	86-50-0	0.05	mg/kg	<0.25	<0.25
<b>EP074D: Fumigants</b>					
2,2-Dichloropropane	594-20-7	0.5	mg/kg	<0.5	<0.5
1,2-Dichloropropane	78-87-5	0.5	mg/kg	<0.5	<0.5
cis-1,3-Dichloropropylene	10061-01-5	0.5	mg/kg	<0.5	<0.5



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Sub-Matrix: SOIL (Matrix: SOIL)	BH04_2.3-2.4 [20-Aug-2015] ES1529109-017 Result	BH05_0.5-0.6 [20-Aug-2015] ES1529109-018 Result	BH07A_0.5-0.6 [20-Aug-2015] ES1529109-019 Result	BH11_0.2-0.3 [20-Aug-2015] ES1529109-020 Result	BH11_2.3-2.4 [20-Aug-2015] ES1529109-021 Result
<b>EP074D: Fumigants - Continued</b>					
trans-1,3-Dichloropropylene	10061-02-6	0.5	mg/kg	<0.5	<0.5
1,2-Dibromoethane (EDB)	106-93-4	0.5	mg/kg	<0.5	<0.5
<b>EP074E: Halogenated Aliphatic Compounds</b>					
Dichlorodifluoromethane	75-71-8	5	mg/kg	<5	<5
Chloromethane	74-87-3	5	mg/kg	<5	<5
Vinyl chloride	75-01-4	5	mg/kg	<5	<5
Bromomethane	74-83-9	5	mg/kg	<5	<5
Chloroethane	75-00-3	5	mg/kg	<5	<5
Trichlorofluoromethane	75-69-4	5	mg/kg	<5	<5
1,1-Dichloroethene	75-35-4	0.5	mg/kg	<0.5	<0.5
Iodomethane	74-88-4	0.5	mg/kg	<0.5	<0.5
trans-1,2-Dichloroethene	156-60-5	0.5	mg/kg	<0.5	<0.5
cis-1,2-Dichloroethene	75-34-3	0.5	mg/kg	<0.5	<0.5
1,1,1-Trichloroethane	156-59-2	0.5	mg/kg	<0.5	<0.5
1,1-Dichloropropylene	71-55-6	0.5	mg/kg	<0.5	<0.5
Carbon Tetrachloride	563-58-6	0.5	mg/kg	<0.5	<0.5
1,2-Dichloroethane	56-23-5	0.5	mg/kg	<0.5	<0.5
Trichloroethene	107-06-2	0.5	mg/kg	<0.5	<0.5
Dibromomethane	79-01-6	0.5	mg/kg	<0.5	<0.5
1,1,2-Trichloroethane	74-95-3	0.5	mg/kg	<0.5	<0.5
1,3-Dichloropropane	79-00-5	0.5	mg/kg	<0.5	<0.5
Tetrachloroethene	142-28-9	0.5	mg/kg	<0.5	<0.5
1,1,1,2-Tetrachloroethane	127-18-4	0.5	mg/kg	<0.5	<0.5
trans-1,4-Dichloro-2-butene	630-20-6	0.5	mg/kg	<0.5	<0.5
cis-1,4-Dichloro-2-butene	110-57-6	0.5	mg/kg	<0.5	<0.5
1,1,2,2-Tetrachloroethane	1476-11-5	0.5	mg/kg	<0.5	<0.5
1,2,3-Trichloropropane	79-34-5	0.5	mg/kg	<0.5	<0.5
Pentachloroethane	96-18-4	0.5	mg/kg	<0.5	<0.5
1,2-Dibromo-3-chloropropane	76-01-7	0.5	mg/kg	<0.5	<0.5
Hexachlorobutadiene	96-12-8	0.5	mg/kg	<0.5	<0.5
Hexachlorobutadiene	87-68-3	0.5	mg/kg	<0.5	<0.5
<b>EP074F: Halogenated Aromatic Compounds</b>					
Chlorobenzene	108-90-7	0.5	mg/kg	<0.5	<0.5
Bromobenzene	108-86-1	0.5	mg/kg	<0.5	<0.5



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Sub-Matrix: SOIL (Matrix: SOIL)	BH04_2.3-2.4 [20-Aug-2015] ES1529109-017	BH05_0.5-0.6 [20-Aug-2015] ES1529109-018	BH07A_0.5-0.6 [20-Aug-2015] ES1529109-019	BH11_0.2-0.3 [20-Aug-2015] ES1529109-020	BH11_2.3-2.4 [20-Aug-2015] ES1529109-021
	Result	Result	Result	Result	Result
<b>EP074F: Halogenated Aromatic Compounds - Continued</b>					
2-Chlorotoluene	95-49-8 0.5 mg/kg	<0.5	----	----	----
4-Chlorotoluene	106-43-4 0.5 mg/kg	<0.5	----	----	----
1,3-Dichlorobenzene	541-73-1 0.5 mg/kg	<0.5	----	----	----
1,4-Dichlorobenzene	106-46-7 0.5 mg/kg	<0.5	----	----	----
1,2-Dichlorobenzene	95-50-1 0.5 mg/kg	<0.5	----	----	----
1,2,4-Trichlorobenzene	120-82-1 0.5 mg/kg	<0.5	----	----	----
1,2,3-Trichlorobenzene	87-61-6 0.5 mg/kg	<0.5	----	----	----
<b>EP074G: Trihalomethanes</b>					
Chloroform	67-66-3 0.5 mg/kg	<0.5	----	----	----
Bromodichloromethane	75-27-4 0.5 mg/kg	<0.5	----	----	----
Dibromochloromethane	124-48-1 0.5 mg/kg	<0.5	----	----	----
Bromoform	75-25-2 0.5 mg/kg	<0.5	----	----	----
<b>EP075(SIM)A: Phenolic Compounds</b>					
Phenol	108-95-2 0.5 mg/kg	<0.5	----	----	----
2-Chlorophenol	95-57-8 0.5 mg/kg	<0.5	----	----	----
2-Methylphenol	95-48-7 0.5 mg/kg	<0.5	----	----	----
3- & 4-Methylphenol	1319-77-3 1 mg/kg	<1	----	----	----
2-Nitrophenol	88-75-5 0.5 mg/kg	<0.5	----	----	----
2,4-Dimethylphenol	105-67-9 0.5 mg/kg	<0.5	----	----	----
2,4-Dichlorophenol	120-83-2 0.5 mg/kg	<0.5	----	----	----
2,6-Dichlorophenol	87-65-0 0.5 mg/kg	<0.5	----	----	----
4-Chloro-3-methylphenol	59-50-7 0.5 mg/kg	<0.5	----	----	----
2,4,6-Trichlorophenol	88-06-2 0.5 mg/kg	<0.5	----	----	----
2,4,5-Trichlorophenol	95-95-4 0.5 mg/kg	<0.5	----	----	----
Pentachlorophenol	87-86-5 2 mg/kg	<2	----	----	----
<b>EP075(SIM)B: Polynuclear Aromatic Hydrocarbons</b>					
Naphthalene	91-20-3 0.5 mg/kg	<0.5	<0.5	<0.5	<0.5
Acenaphthylene	208-96-8 0.5 mg/kg	<0.5	<0.5	<0.5	<0.5
Acenaphthene	83-32-9 0.5 mg/kg	<0.5	<0.5	<0.5	<0.5
Fluorene	86-73-7 0.5 mg/kg	<0.5	<0.5	<0.5	<0.5
Phenanthrene	85-01-8 0.5 mg/kg	1.0	<0.5	1.0	<0.5
Anthracene	120-12-7 0.5 mg/kg	<0.5	<0.5	<0.5	<0.5
Fluoranthene	206-44-0 0.5 mg/kg	1.9	0.6	1.8	<0.5
Pyrene	129-00-0 0.5 mg/kg	2.0	0.6	1.8	<0.5



Sub-Matrix: SOIL (Matrix: SOIL)	BH04_2.3-2.4 [20-Aug-2015] ES1529109-017	BH05_0.5-0.6 [20-Aug-2015] ES1529109-018	BH07A_0.5-0.6 [20-Aug-2015] ES1529109-019	BH11_0.2-0.3 [20-Aug-2015] ES1529109-020	BH11_2.3-2.4 [20-Aug-2015] ES1529109-021
	Result	Result	Result	Result	Result
<b>EP075(SIM)B: Polynuclear Aromatic Hydrocarbons - Continued</b>					
Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	<0.5
Chrysene	218-01-9	0.5	mg/kg	<0.5	<0.5
Benzo(b+)fluoranthene	205-99-2	205-82-3	0.5	mg/kg	0.6
Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	<0.5	<0.5
Benzo(a)pyrene	50-32-8	0.5	mg/kg	0.6	<0.5
Indeno(1,2,3-cd)pyrene	193-39-5	0.5	mg/kg	<0.5	<0.5
Dibenz(a,h)anthracene	53-70-3	0.5	mg/kg	<0.5	<0.5
Benzo(g,h,i)perylene	191-24-2	0.5	mg/kg	0.6	<0.5
^ Sum of polycyclic aromatic hydrocarbons	----	0.5	mg/kg	3.0	10.4
^ Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg	0.7	1.2
^ Benzo(a)pyrene TEQ (half LOR)	----	0.5	mg/kg	1.0	1.5
^ Benzo(a)pyrene TEQ (LOR)	----	0.5	mg/kg	1.3	1.7
<b>EP080/071: Total Petroleum Hydrocarbons</b>					
C6 - C9 Fraction	----	10	mg/kg	<10	<10
C10 - C14 Fraction	----	50	mg/kg	<50	<50
C15 - C28 Fraction	----	100	mg/kg	<100	<100
C29 - C36 Fraction	----	100	mg/kg	<100	<100
^ C10 - C36 Fraction (sum)	----	50	mg/kg	<50	<50
<b>EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions</b>					
C6 - C10 Fraction	C6_C10	10	mg/kg	<10	<10
^ C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	10	mg/kg	<10	<10
>C10 - C16 Fraction	>C10_C16	50	mg/kg	<50	<50
>C16 - C34 Fraction	----	100	mg/kg	140	150
>C34 - C40 Fraction	----	100	mg/kg	<100	<100
^ >C10 - C40 Fraction (sum)	----	50	mg/kg	140	150
^ >C10 - C16 Fraction minus Naphthalene (F2)	----	50	mg/kg	<50	<50
<b>EP080: BTEXN</b>					
Benzene	71-43-2	0.2	mg/kg	<0.2	<0.2
Toluene	108-88-3	0.5	mg/kg	<0.5	<0.5
Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	<0.5
meta- & para-Xylene	108-38-3	106-42-3	0.5	mg/kg	<0.5
ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	<0.5
^ Sum of BTEX	----	0.2	mg/kg	<0.2	<0.2







Sub-Matrix: SOIL (Matrix: SOIL)	BH11_3.3-3.4 [20-Aug-2015] ES1529109-022	BH05_1.0-1.1 [20-Aug-2015] ES1529109-023	BH05_2.3-2.4 [20-Aug-2015] ES1529109-024	BH08_0.17-0.18 [20-Aug-2015] ES1529109-025	BH08_1.0-1.1 [20-Aug-2015] ES1529109-026
<b>EA055: Moisture Content</b>					
^ Moisture Content (dried @ 103°C)	44.5	43.7	39.8	17.4	33.8
<b>EA200: AS 4964 - 2004 Identification of Asbestos in Soils</b>					
Asbestos Detected	1332-21-4	0.1	g/kg		
Asbestos Type	1332-21-4	-	--		
Sample weight (dry)	0.01		g		
APPROVED IDENTIFIER:					
<b>EG005T: Total Metals by ICP-AES</b>					
Arsenic	7440-38-2	5	mg/kg	19	52
Cadmium	7440-43-9	1	mg/kg	<1	3
Chromium	7440-47-3	2	mg/kg	70	33
Copper	7440-50-8	5	mg/kg	321	396
Lead	7439-92-1	5	mg/kg	1000	1930
Nickel	7440-02-0	2	mg/kg	27	39
Zinc	7440-66-6	5	mg/kg	750	2630
<b>EG035T: Total Recoverable Mercury by FIMS</b>					
Mercury	7439-97-6	0.1	mg/kg	2.5	0.7
<b>EP066: Polychlorinated Biphenyls (PCB)</b>					
Total Polychlorinated biphenyls		0.1	mg/kg		<0.1
<b>EP068A: Organochlorine Pesticides (OC)</b>					
alpha-BHC	319-84-6	0.05	mg/kg		<0.05
Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg		<0.05
beta-BHC	319-85-7	0.05	mg/kg		<0.05
gamma-BHC	58-89-9	0.05	mg/kg		<0.05
delta-BHC	319-86-8	0.05	mg/kg		<0.05
Heptachlor	76-44-8	0.05	mg/kg		<0.05
Aldrin	309-00-2	0.05	mg/kg		<0.05
Heptachlor epoxide	1024-57-3	0.05	mg/kg		<0.05
^ Total Chlordane (sum)		0.05	mg/kg		<0.05
trans-Chlordane	5103-74-2	0.05	mg/kg		<0.05
alpha-Endosulfan	959-98-8	0.05	mg/kg		<0.05
cis-Chlordane	5103-71-9	0.05	mg/kg		<0.05
Dieldrin	60-57-1	0.05	mg/kg		<0.05
4,4'-DDE	72-55-9	0.05	mg/kg		<0.05
Endrin	72-20-8	0.05	mg/kg		<0.05



Sub-Matrix: SOIL (Matrix: SOIL)	BH11_3-3-4 [20-Aug-2015] ES1529109-022	BH05_1.0-1.1 [20-Aug-2015] ES1529109-023	BH05_2.3-2.4 [20-Aug-2015] ES1529109-024	BH08_0.17-0.18 [20-Aug-2015] ES1529109-025	BH08_1.0-1.1 [20-Aug-2015] ES1529109-026
	Result	Result	Result	Result	Result
<b>EP068A: Organochlorine Pesticides (OC) - Continued</b>					
beta-Endosulfan	33213-65-9	0.05	mg/kg	<0.05	<0.05
^ Endosulfan (sum)	115-29-7	0.05	mg/kg	<0.05	<0.05
4,4'-DDD	72-54-8	0.05	mg/kg	<0.05	<0.05
Endrin aldehyde	7421-93-4	0.05	mg/kg	<0.05	<0.05
Endosulfan sulfate	1031-07-8	0.05	mg/kg	<0.05	<0.05
4,4'-DDT	50-29-3	0.2	mg/kg	<0.2	<0.2
Endrin ketone	53494-70-5	0.05	mg/kg	<0.05	<0.05
Methoxychlor	72-43-5	0.2	mg/kg	<0.2	<0.2
^ Sum of Aldrin + Dieldrin	309-00-2/60-57-1	0.05	mg/kg	<0.05	<0.05
^ Sum of DDD + DDE + DDT	-----	0.05	mg/kg	<0.05	<0.05
<b>EP068B: Organophosphorus Pesticides (OP)</b>					
OPDichlorvos	62-73-7	0.05	mg/kg	<0.05	<0.05
OPDemeton-S-methyl	919-86-8	0.05	mg/kg	<0.05	<0.05
Monocrotophos	6923-22-4	0.2	mg/kg	<0.2	<0.2
Dimethoate	60-51-5	0.05	mg/kg	<0.05	<0.05
Diazinon	333-41-5	0.05	mg/kg	<0.05	<0.05
Chlorpyrifos-methyl	5598-13-0	0.05	mg/kg	<0.05	<0.05
Parathion-methyl	298-00-0	0.2	mg/kg	<0.2	<0.2
Malathion	121-75-5	0.05	mg/kg	<0.05	<0.05
Fenthion	55-38-9	0.05	mg/kg	<0.05	<0.05
Chlorpyrifos	2921-88-2	0.05	mg/kg	<0.05	<0.05
Parathion	56-38-2	0.2	mg/kg	<0.2	<0.2
Pirimphos-ethyl	23505-41-1	0.05	mg/kg	<0.05	<0.05
Chlorfenvinphos	470-90-6	0.05	mg/kg	<0.05	<0.05
Bromophos-ethyl	4824-78-6	0.05	mg/kg	<0.05	<0.05
Fenamiphos	22224-92-6	0.05	mg/kg	<0.05	<0.05
Prothiofos	34643-46-4	0.05	mg/kg	<0.05	<0.05
Ethion	563-12-2	0.05	mg/kg	<0.05	<0.05
Carbophenothion	786-19-6	0.05	mg/kg	<0.05	<0.05
Azinphos Methyl	86-50-0	0.05	mg/kg	<0.05	<0.05
<b>EP074D: Fumigants</b>					
2,2-Dichloropropane	594-20-7	0.5	mg/kg	-----	-----
1,2-Dichloropropane	78-87-5	0.5	mg/kg	-----	-----
cis-1,3-Dichloropropylene	10061-01-5	0.5	mg/kg	-----	-----



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Sub-Matrix: SOIL (Matrix: SOIL)	BH11_3.3-3.4 [20-Aug-2015] ES1529109-022 Result	BH05_1.0-1.1 [20-Aug-2015] ES1529109-023 Result	BH05_2.3-2.4 [20-Aug-2015] ES1529109-024 Result	BH08_0.17-0.18 [20-Aug-2015] ES1529109-025 Result	BH08_1.0-1.1 [20-Aug-2015] ES1529109-026 Result
<b>EP074D: Fumigants - Continued</b>					
trans-1,3-Dichloropropylene	10061-02-6	0.5	mg/kg	****	****
1,2-Dibromoethane (EDB)	106-93-4	0.5	mg/kg	****	****
<b>EP074E: Halogenated Aliphatic Compounds</b>					
Dichlorodifluoromethane	75-71-8	5	mg/kg	****	****
Chloromethane	74-87-3	5	mg/kg	****	****
Vinyl chloride	75-01-4	5	mg/kg	****	****
Bromomethane	74-83-9	5	mg/kg	****	****
Chloroethane	75-00-3	5	mg/kg	****	****
Trichlorofluoromethane	75-69-4	5	mg/kg	****	****
1,1-Dichloroethene	75-35-4	0.5	mg/kg	****	****
Iodomethane	74-88-4	0.5	mg/kg	****	****
trans-1,2-Dichloroethene	156-60-5	0.5	mg/kg	****	****
cis-1,2-Dichloroethene	75-34-3	0.5	mg/kg	****	****
1,1,1-Trichloroethane	156-59-2	0.5	mg/kg	****	****
1,1-Dichloropropylene	71-55-6	0.5	mg/kg	****	****
Carbon Tetrachloride	563-58-6	0.5	mg/kg	****	****
1,2-Dichloroethane	56-23-5	0.5	mg/kg	****	****
Trichloroethene	107-06-2	0.5	mg/kg	****	****
Dibromomethane	79-01-6	0.5	mg/kg	****	****
1,1,2-Trichloroethane	74-95-3	0.5	mg/kg	****	****
1,3-Dichloropropane	79-00-5	0.5	mg/kg	****	****
Tetrachloroethene	142-28-9	0.5	mg/kg	****	****
1,1,1,2-Tetrachloroethane	127-18-4	0.5	mg/kg	****	****
trans-1,4-Dichloro-2-butene	630-20-6	0.5	mg/kg	****	****
cis-1,4-Dichloro-2-butene	110-57-6	0.5	mg/kg	****	****
1,1,2,2-Tetrachloroethane	1476-11-5	0.5	mg/kg	****	****
1,2,3-Trichloropropane	79-34-5	0.5	mg/kg	****	****
Pentachloroethane	96-18-4	0.5	mg/kg	****	****
1,2-Dibromo-3-chloropropane	76-01-7	0.5	mg/kg	****	****
Hexachlorobutadiene	96-12-8	0.5	mg/kg	****	****
	87-68-3	0.5	mg/kg	****	****
<b>EP074F: Halogenated Aromatic Compounds</b>					
Chlorobenzene	108-90-7	0.5	mg/kg	****	****
Bromobenzene	108-86-1	0.5	mg/kg	****	****



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Sub-Matrix: SOIL (Matrix: SOIL)	BH11_3.3-3.4 [20-Aug-2015] ES1529109-022	BH05_1.0-1.1 [20-Aug-2015] ES1529109-023	BH05_2.3-2.4 [20-Aug-2015] ES1529109-024	BH08_0.17-0.18 [20-Aug-2015] ES1529109-025	BH08_1.0-1.1 [20-Aug-2015] ES1529109-026
	Result	Result	Result	Result	Result
<b>EP074F: Halogenated Aromatic Compounds - Continued</b>					
2-Chlorotoluene	95-49-8	0.5	mg/kg	0.5	mg/kg
4-Chlorotoluene	106-43-4	0.5	mg/kg	0.5	mg/kg
1,3-Dichlorobenzene	541-73-1	0.5	mg/kg	0.5	mg/kg
1,4-Dichlorobenzene	106-46-7	0.5	mg/kg	0.5	mg/kg
1,2-Dichlorobenzene	95-50-1	0.5	mg/kg	0.5	mg/kg
1,2,4-Trichlorobenzene	120-82-1	0.5	mg/kg	0.5	mg/kg
1,2,3-Trichlorobenzene	87-61-6	0.5	mg/kg	0.5	mg/kg
<b>EP074G: Trihalomethanes</b>					
Chloroform	67-66-3	0.5	mg/kg	0.5	mg/kg
Bromodichloromethane	75-27-4	0.5	mg/kg	0.5	mg/kg
Dibromochloromethane	124-48-1	0.5	mg/kg	0.5	mg/kg
Bromoform	75-25-2	0.5	mg/kg	0.5	mg/kg
<b>EP075(SIM)A: Phenolic Compounds</b>					
Phenol	108-95-2	0.5	mg/kg	0.5	mg/kg
2-Chlorophenol	95-57-8	0.5	mg/kg	0.5	mg/kg
2-Methylphenol	95-48-7	0.5	mg/kg	0.5	mg/kg
3- & 4-Methylphenol	1319-77-3	1	mg/kg	0.5	mg/kg
2-Nitrophenol	88-75-5	0.5	mg/kg	0.5	mg/kg
2,4-Dimethylphenol	105-67-9	0.5	mg/kg	0.5	mg/kg
2,4-Dichlorophenol	120-83-2	0.5	mg/kg	0.5	mg/kg
2,6-Dichlorophenol	87-65-0	0.5	mg/kg	0.5	mg/kg
4-Chloro-3-methylphenol	59-50-7	0.5	mg/kg	0.5	mg/kg
2,4,6-Trichlorophenol	88-06-2	0.5	mg/kg	0.5	mg/kg
2,4,5-Trichlorophenol	95-95-4	0.5	mg/kg	0.5	mg/kg
Pentachlorophenol	87-86-5	2	mg/kg	0.5	mg/kg
<b>EP075(SIM)B: Polynuclear Aromatic Hydrocarbons</b>					
Naphthalene	91-20-3	0.5	mg/kg	<0.5	mg/kg
Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	mg/kg
Acenaphthene	83-32-9	0.5	mg/kg	<0.5	mg/kg
Fluorene	86-73-7	0.5	mg/kg	<0.5	mg/kg
Phenanthrene	85-01-8	0.5	mg/kg	0.9	mg/kg
Anthracene	120-12-7	0.5	mg/kg	<0.5	mg/kg
Fluoranthene	206-44-0	0.5	mg/kg	1.9	mg/kg
Pyrene	129-00-0	0.5	mg/kg	1.9	mg/kg



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Sub-Matrix: SOIL (Matrix: SOIL)	BH11_3.3-3.4 [20-Aug-2015] ES1529109-022	BH05_1.0-1.1 [20-Aug-2015] ES1529109-023	BH05_2.3-2.4 [20-Aug-2015] ES1529109-024	BH08_0.17-0.18 [20-Aug-2015] ES1529109-025	BH08_1.0-1.1 [20-Aug-2015] ES1529109-026
	Result	Result	Result	Result	Result
<b>EP075(SIM)B: Polynuclear Aromatic Hydrocarbons - Continued</b>					
Benz(a)anthracene	56-55-3 0.5 mg/kg	1.2	----	----	0.6
Chrysene	218-01-9 0.5 mg/kg	1.1	----	----	0.8
Benzo(b+)fluoranthene	205-99-2 205-82-3 0.5 mg/kg	1.6	----	----	1.2
Benzo(k)fluoranthene	207-08-9 0.5 mg/kg	0.7	----	----	0.6
Benzo(a)pyrene	50-32-8 0.5 mg/kg	1.3	----	----	0.7
Indeno(1,2,3-cd)pyrene	193-39-5 0.5 mg/kg	0.8	----	----	0.6
Dibenz(a,h)anthracene	53-70-3 0.5 mg/kg	<0.5	----	----	<0.5
Benzo(g,h,i)perylene	191-24-2 0.5 mg/kg	1.1	----	----	0.9
^ Sum of polycyclic aromatic hydrocarbons	0.5 mg/kg	12.5	----	----	8.9
^ Benzo(a)pyrene TEQ (zero)	0.5 mg/kg	1.8	----	----	1.0
^ Benzo(a)pyrene TEQ (half LOR)	0.5 mg/kg	2.0	----	----	1.3
^ Benzo(a)pyrene TEQ (LOR)	0.5 mg/kg	2.2	----	----	1.5
<b>EP080/071: Total Petroleum Hydrocarbons</b>					
C6 - C9 Fraction	10 mg/kg	----	<10	----	<10
C10 - C14 Fraction	50 mg/kg	----	<50	----	<50
C15 - C28 Fraction	100 mg/kg	290	<100	----	230
C29 - C36 Fraction	100 mg/kg	480	150	----	160
^ C10 - C36 Fraction (sum)	50 mg/kg	770	150	----	390
<b>EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions</b>					
C6 - C10 Fraction	10 mg/kg	----	<10	----	<10
^ C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX 10 mg/kg	----	<10	----	<10
>C10 - C16 Fraction	>C10_C16 50 mg/kg	----	<50	----	<50
>C16 - C34 Fraction	100 mg/kg	650	210	----	350
>C34 - C40 Fraction	100 mg/kg	310	<100	----	<100
^ >C10 - C40 Fraction (sum)	50 mg/kg	960	210	----	350
^ >C10 - C16 Fraction minus Naphthalene (F2)	50 mg/kg	----	<50	----	<50
<b>EP080: BTEXN</b>					
Benzene	71-43-2 0.2 mg/kg	----	<0.2	----	<0.2
Toluene	108-88-3 0.5 mg/kg	----	<0.5	----	<0.5
Ethylbenzene	100-41-4 0.5 mg/kg	----	<0.5	----	<0.5
meta- & para-Xylene	108-38-3 106-42-3 0.5 mg/kg	----	<0.5	----	<0.5
ortho-Xylene	95-47-6 0.5 mg/kg	----	<0.5	----	<0.5
^ Sum of BTEX	0.2 mg/kg	----	<0.2	----	<0.2



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Sub-Matrix: SOIL (Matrix: SOIL)	BH11_3.3-3.4 [20-Aug-2015]	BH05_1.0-1.1 [20-Aug-2015]	BH05_2.3-2.4 [20-Aug-2015]	BH08_0.17-0.18 [20-Aug-2015]	BH08_1.0-1.1 [20-Aug-2015]
	ES1529109-022 Result	ES1529109-023 Result	ES1529109-024 Result	ES1529109-025 Result	ES1529109-026 Result
<b>EP080: BTEXN - Continued</b>					
^ Total Xylenes	1330-20-7	0.5	mg/kg	<0.5	<0.5
Naphthalene	91-20-3	1	mg/kg	<1	<1
<b>EP066S: PCB Surrogate</b>					
Decachlorobiphenyl	2051-24-3	0.1	%	77.5	77.5
<b>EP068S: Organochlorine Pesticide Surrogate</b>					
Dibromo-DDE	21655-73-2	0.05	%	97.9	97.9
<b>EP068T: Organophosphorus Pesticide Surrogate</b>					
DEF	78-48-8	0.05	%	82.4	82.4
<b>EP074S: VOC Surrogates</b>					
1,2-Dichloroethane-D4	17060-07-0	0.5	%	91.9	91.9
Toluene-D8	2037-26-5	0.5	%	97.5	97.5
1,3-Dibromofluorobenzene	460-00-4	0.5	%	109	109
<b>EP075(SIM)S: Phenolic Compound Surrogates</b>					
Phenol-d6	13127-88-3	0.5	%	91.9	91.9
2-Chlorophenol-D4	93951-73-6	0.5	%	97.5	97.5
2,4,6-Tribromophenol	118-79-6	0.5	%	109	109
<b>EP075(SIM)T: PAH Surrogates</b>					
2-Fluorobiphenyl	321-60-8	0.5	%	91.9	91.9
Anthracene-d10	1719-06-8	0.5	%	108	108
4-Terphenyl-d14	1718-51-0	0.5	%	93.8	93.8
<b>EP080S: TPH(V)/BTEX Surrogates</b>					
1,2-Dichloroethane-D4	17060-07-0	0.2	%	89.2	89.2
Toluene-D8	2037-26-5	0.2	%	93.2	93.2
4-Bromofluorobenzene	460-00-4	0.2	%	87.5	87.5
				91.3	91.3
				96.8	96.8
				83.0	83.0
				86.8	86.8
				93.7	93.7
				80.0	80.0



Sub-Matrix: SOIL (Matrix: SOIL)	BH08_2.5-2.6 [20-Aug-2015] ES1529109-027	BH08_3.7-3.8 [20-Aug-2015] ES1529109-028	BH13_0.4-0.5 [20-Aug-2015] ES1529109-029	BH13_3.6-3.7 [20-Aug-2015] ES1529109-030	QC200 [20-Aug-2015] ES1529109-031
<b>EA055: Moisture Content</b>					
^ Moisture Content (dried @ 103°C)	40.8	31.7	39.3	29.6	35.0
<b>EA200: AS 4964 - 2004 Identification of Asbestos in Soils</b>					
Asbestos Detected	1332-21-4	1332-21-4	1332-21-4	1332-21-4	1332-21-4
Asbestos Type	-	-	-	-	-
Sample weight (dry)	0.01	0.01	0.01	0.01	0.01
APPROVED IDENTIFIER:	-	-	-	-	-
<b>EG005T: Total Metals by ICP-AES</b>					
Arsenic	7440-38-2	42	18	35	76
Cadmium	7440-43-9	3	<1	10	4
Chromium	7440-47-3	200	20	258	69
Copper	7440-50-8	1280	447	971	634
Co	7439-92-1	1470	85	1420	3180
Nickel	7440-02-0	51	17	58	42
Zinc	7440-66-6	4830	348	3040	890
<b>EG035T: Total Recoverable Mercury by FIMS</b>					
Mercury	7439-97-6	0.1	0.9	0.9	15.2
<b>EP066: Polychlorinated Biphenyls (PCB)</b>					
Total Polychlorinated biphenyls	0.1	0.1	0.1	0.1	0.1
<b>EP068A: Organochlorine Pesticides (OC)</b>					
alpha-BHC	319-84-6	0.05	0.05	0.05	0.05
Hexachlorobenzene (HCB)	118-74-1	0.05	0.05	0.05	0.05
beta-BHC	319-85-7	0.05	0.05	0.05	0.05
gamma-BHC	58-89-9	0.05	0.05	0.05	0.05
delta-BHC	319-86-8	0.05	0.05	0.05	0.05
Heptachlor	76-44-8	0.05	0.05	0.05	0.05
Aldrin	309-00-2	0.05	0.05	0.05	0.05
Heptachlor epoxide	1024-57-3	0.05	0.05	0.05	0.05
^ Total Chlordane (sum)	5103-74-2	0.05	0.05	0.05	0.05
trans-Chlordane	959-98-8	0.05	0.05	0.05	0.05
alpha-Endosulfan	5103-71-9	0.05	0.05	0.05	0.05
cis-Chlordane	60-57-1	0.05	0.05	0.05	0.05
Dieldrin	72-55-9	0.05	0.05	0.05	0.05
4,4'-DDE	72-20-8	0.05	0.05	0.05	0.05
Endrin	72-20-8	0.05	0.05	0.05	0.05



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Sub-Matrix: SOIL (Matrix: SOIL)	BH08_2.5-2.6 [20-Aug-2015] ES1529109-027	BH08_3.7-3.8 [20-Aug-2015] ES1529109-028	BH13_0.4-0.5 [20-Aug-2015] ES1529109-029	BH13_3.6-3.7 [20-Aug-2015] ES1529109-030	QC200 [20-Aug-2015] ES1529109-031
	Result	Result	Result	Result	Result
<b>EP068A: Organochlorine Pesticides (OC) - Continued</b>					
beta-Endosulfan	33213-65-9	0.05	mg/kg	<0.05	<0.05
^ Endosulfan (sum)	115-29-7	0.05	mg/kg	<0.05	<0.05
4,4'-DDD	72-54-8	0.05	mg/kg	<0.05	<0.05
Endrin aldehyde	7421-93-4	0.05	mg/kg	<0.05	<0.05
Endosulfan sulfate	1031-07-8	0.05	mg/kg	<0.05	<0.05
4,4'-DDT	50-29-3	0.2	mg/kg	<0.2	<0.2
Endrin ketone	53494-70-5	0.05	mg/kg	<0.05	<0.05
Methoxychlor	72-43-5	0.2	mg/kg	<0.2	<0.2
^ Sum of Aldrin + Dieldrin	309-00-2/60-57-1	0.05	mg/kg	<0.05	<0.05
^ Sum of DDD + DDE + DDT	-----	0.05	mg/kg	<0.05	<0.05
<b>EP068B: Organophosphorus Pesticides (OP)</b>					
DDT	62-73-7	0.05	mg/kg	<0.05	<0.05
Chlorpyrifos	919-86-8	0.05	mg/kg	<0.05	<0.05
Chlorfenvinphos	6923-22-4	0.2	mg/kg	<0.2	<0.2
Monocrotophos	60-51-5	0.05	mg/kg	<0.05	<0.05
Dimethoate	333-41-5	0.05	mg/kg	<0.05	<0.05
Diazinon	5598-13-0	0.05	mg/kg	<0.05	<0.05
Chlorpyrifos-methyl	298-00-0	0.2	mg/kg	<0.2	<0.2
Parathion-methyl	121-75-5	0.05	mg/kg	<0.05	<0.05
Malathion	55-38-9	0.05	mg/kg	<0.05	<0.05
Fenthion	2921-88-2	0.05	mg/kg	<0.05	<0.05
Chlorpyrifos	56-38-2	0.2	mg/kg	<0.2	<0.2
Parathion	23505-41-1	0.05	mg/kg	<0.05	<0.05
Pirimphos-ethyl	470-90-6	0.05	mg/kg	<0.05	<0.05
Chlorfenvinphos	4824-78-6	0.05	mg/kg	<0.05	<0.05
Bromophos-ethyl	22224-92-6	0.05	mg/kg	<0.05	<0.05
Fenamiphos	34643-46-4	0.05	mg/kg	<0.05	<0.05
Prothiofos	563-12-2	0.05	mg/kg	<0.05	<0.05
Ethion	786-19-6	0.05	mg/kg	<0.05	<0.05
Carbophenothion	86-50-0	0.05	mg/kg	<0.05	<0.05
Azinphos Methyl	-----	0.05	mg/kg	<0.05	<0.05
<b>EP074D: Fumigants</b>					
2,2-Dichloropropane	594-20-7	0.5	mg/kg	<0.05	<0.05
1,2-Dichloropropane	78-87-5	0.5	mg/kg	<0.05	<0.05
cis-1,3-Dichloropropylene	10061-01-5	0.5	mg/kg	<0.05	<0.05





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Sub-Matrix: SOIL (Matrix: SOIL)	BH08_2.5-2.6 [20-Aug-2015] ES1529109-027	BH08_3.7-3.8 [20-Aug-2015] ES1529109-028	BH13_0.4-0.5 [20-Aug-2015] ES1529109-029	BH13_3.6-3.7 [20-Aug-2015] ES1529109-030	QC200 [20-Aug-2015] ES1529109-031
	Result	Result	Result	Result	Result
<b>EP074D: Fumigants - Continued</b>					
trans-1,3-Dichloropropylene	10061-02-6	0.5	mg/kg	****	****
1,2-Dibromoethane (EDB)	106-93-4	0.5	mg/kg	****	****
<b>EP074E: Halogenated Aliphatic Compounds</b>					
Dichlorodifluoromethane	75-71-8	5	mg/kg	****	****
Chloromethane	74-87-3	5	mg/kg	****	****
Vinyl chloride	75-01-4	5	mg/kg	****	****
Bromomethane	74-83-9	5	mg/kg	****	****
Chloroethane	75-00-3	5	mg/kg	****	****
Trichlorofluoromethane	75-69-4	5	mg/kg	****	****
1,1-Dichloroethene	75-35-4	0.5	mg/kg	****	****
Iodomethane	74-88-4	0.5	mg/kg	****	****
trans-1,2-Dichloroethene	156-60-5	0.5	mg/kg	****	****
cis-1,2-Dichloroethene	75-34-3	0.5	mg/kg	****	****
1,1,1-Trichloroethane	156-59-2	0.5	mg/kg	****	****
1,1-Dichloropropylene	71-55-6	0.5	mg/kg	****	****
Carbon Tetrachloride	563-58-6	0.5	mg/kg	****	****
1,2-Dichloroethane	56-23-5	0.5	mg/kg	****	****
Trichloroethene	107-06-2	0.5	mg/kg	****	****
Dibromomethane	79-01-6	0.5	mg/kg	****	****
1,1,2-Trichloroethane	74-95-3	0.5	mg/kg	****	****
1,3-Dichloropropane	79-00-5	0.5	mg/kg	****	****
Tetrachloroethene	142-28-9	0.5	mg/kg	****	****
1,1,1,2-Tetrachloroethane	127-18-4	0.5	mg/kg	****	****
trans-1,4-Dichloro-2-butene	630-20-6	0.5	mg/kg	****	****
cis-1,4-Dichloro-2-butene	110-57-6	0.5	mg/kg	****	****
1,1,2,2-Tetrachloroethane	1476-11-5	0.5	mg/kg	****	****
1,2,3-Trichloropropane	79-34-5	0.5	mg/kg	****	****
Pentachloroethane	96-18-4	0.5	mg/kg	****	****
1,2-Dibromo-3-chloropropane	76-01-7	0.5	mg/kg	****	****
Hexachlorobutadiene	96-12-8	0.5	mg/kg	****	****
	87-68-3	0.5	mg/kg	****	****
<b>EP074F: Halogenated Aromatic Compounds</b>					
Chlorobenzene	108-90-7	0.5	mg/kg	****	****
Bromobenzene	108-86-1	0.5	mg/kg	****	****



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Sub-Matrix: SOIL (Matrix: SOIL)	BH08_2.5-2.6 [20-Aug-2015] ES1529109-027	BH08_3.7-3.8 [20-Aug-2015] ES1529109-028	BH13_0.4-0.5 [20-Aug-2015] ES1529109-029	BH13_3.6-3.7 [20-Aug-2015] ES1529109-030	QC200 [20-Aug-2015] ES1529109-031
	Result	Result	Result	Result	Result
<b>EP074F: Halogenated Aromatic Compounds - Continued</b>					
2-Chlorotoluene	95-49-8	0.5	mg/kg	****	****
4-Chlorotoluene	106-43-4	0.5	mg/kg	****	****
1,3-Dichlorobenzene	541-73-1	0.5	mg/kg	****	****
1,4-Dichlorobenzene	106-46-7	0.5	mg/kg	****	****
1,2-Dichlorobenzene	95-50-1	0.5	mg/kg	****	****
1,2,4-Trichlorobenzene	120-82-1	0.5	mg/kg	****	****
1,2,3-Trichlorobenzene	87-61-6	0.5	mg/kg	****	****
<b>EP074G: Trihalomethanes</b>					
Chloroform	67-66-3	0.5	mg/kg	****	****
Bromodichloromethane	75-27-4	0.5	mg/kg	****	****
Dibromochloromethane	124-48-1	0.5	mg/kg	****	****
Bromoform	75-25-2	0.5	mg/kg	****	****
<b>EP075(SIM)A: Phenolic Compounds</b>					
Phenol	108-95-2	0.5	mg/kg	****	****
2-Chlorophenol	95-57-8	0.5	mg/kg	****	****
2-Methylphenol	95-48-7	0.5	mg/kg	****	****
3- & 4-Methylphenol	1319-77-3	1	mg/kg	****	****
2-Nitrophenol	88-75-5	0.5	mg/kg	****	****
2,4-Dimethylphenol	105-67-9	0.5	mg/kg	****	****
2,4-Dichlorophenol	120-83-2	0.5	mg/kg	****	****
2,6-Dichlorophenol	87-65-0	0.5	mg/kg	****	****
4-Chloro-3-methylphenol	59-50-7	0.5	mg/kg	****	****
2,4,6-Trichlorophenol	88-06-2	0.5	mg/kg	****	****
2,4,5-Trichlorophenol	95-95-4	0.5	mg/kg	****	****
Pentachlorophenol	87-86-5	2	mg/kg	****	****
<b>EP075(SIM)B: Polynuclear Aromatic Hydrocarbons</b>					
Naphthalene	91-20-3	0.5	mg/kg	<0.5	<0.5
Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	<0.5
Acenaphthene	83-32-9	0.5	mg/kg	<0.5	<0.5
Fluorene	86-73-7	0.5	mg/kg	<0.5	<0.5
Phenanthrene	85-01-8	0.5	mg/kg	0.8	<0.5
Anthracene	120-12-7	0.5	mg/kg	<0.5	<0.5
Fluoranthene	206-44-0	0.5	mg/kg	4.5	0.9
Pyrene	129-00-0	0.5	mg/kg	4.5	0.8



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Sub-Matrix: SOIL (Matrix: SOIL)	BH08_2.5-2.6 [20-Aug-2015] ES1529109-027	BH08_3.7-3.8 [20-Aug-2015] ES1529109-028	BH13_0.4-0.5 [20-Aug-2015] ES1529109-029	BH13_3.6-3.7 [20-Aug-2015] ES1529109-030	QC200 [20-Aug-2015] ES1529109-031
	Result	Result	Result	Result	Result
<b>EP075(SIM)B: Polynuclear Aromatic Hydrocarbons - Continued</b>					
Benz(a)anthracene	56-55-3 0.5 mg/kg	2.5	1.3	1.3	<0.5
Chrysene	218-01-9 0.5 mg/kg	3.9	1.4	1.4	0.5
Benzo(b+)fluoranthene	205-99-2 0.5 mg/kg	4.0	2.2	2.2	1.2
Benzo(k)fluoranthene	207-08-9 0.5 mg/kg	1.4	0.8	0.8	<0.5
Benzo(a)pyrene	50-32-8 0.5 mg/kg	1.4	1.6	1.6	<0.5
Indeno(1,2,3-cd)pyrene	193-39-5 0.5 mg/kg	1.3	1.0	1.0	<0.5
Dibenz(a,h)anthracene	53-70-3 0.5 mg/kg	<0.5	<0.5	<0.5	<0.5
Benzo(g,h,i)perylene	191-24-2 0.5 mg/kg	1.7	1.4	1.4	0.7
^ Sum of polycyclic aromatic hydrocarbons	0.5 mg/kg	25.2	16.0	16.0	4.1
^ Benzo(a)pyrene TEQ (zero)	0.5 mg/kg	2.4	2.2	2.2	<0.5
^ Benzo(a)pyrene TEQ (half LOR)	0.5 mg/kg	2.6	2.4	2.4	0.7
^ Benzo(a)pyrene TEQ (LOR)	0.5 mg/kg	2.9	2.6	2.6	1.3
<b>EP080/071: Total Petroleum Hydrocarbons</b>					
C6 - C9 Fraction	10 mg/kg	<10	<10	<10	<10
C10 - C14 Fraction	50 mg/kg	<50	<50	<50	<50
C15 - C28 Fraction	100 mg/kg	270			
C29 - C36 Fraction	100 mg/kg	130			
^ C10 - C36 Fraction (sum)	50 mg/kg	400			
<b>EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions</b>					
C6 - C10 Fraction	10 mg/kg	<10	<10	<10	<10
^ C6 - C10 Fraction minus BTEX (F1)	10 mg/kg	<10	<10	<10	<10
>C10 - C16 Fraction	50 mg/kg	<50	<50	<50	<50
>C16 - C34 Fraction	100 mg/kg	380			
>C34 - C40 Fraction	100 mg/kg	<100			
^ >C10 - C40 Fraction (sum)	50 mg/kg	380			
^ >C10 - C16 Fraction minus Naphthalene (F2)	50 mg/kg	<50	<50	<50	<50
<b>EP080: BTEXN</b>					
Benzene	71-43-2 0.2 mg/kg	<0.2	<0.2	<0.2	<0.2
Toluene	108-88-3 0.5 mg/kg	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	100-41-4 0.5 mg/kg	<0.5	<0.5	<0.5	<0.5
meta- & para-Xylene	108-38-3 0.5 mg/kg	<0.5	<0.5	<0.5	<0.5
ortho-Xylene	95-47-6 0.5 mg/kg	<0.5	<0.5	<0.5	<0.5
^ Sum of BTEX	0.2 mg/kg	<0.2	<0.2	<0.2	<0.2



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Sub-Matrix: SOIL (Matrix: SOIL)		BH08_2.5-2.6 [20-Aug-2015]	BH08_3.7-3.8 [20-Aug-2015]	BH13_0.4-0.5 [20-Aug-2015]	BH13_3.6-3.7 [20-Aug-2015]	QC200 [20-Aug-2015]
		ES1529109-027 Result	ES1529109-028 Result	ES1529109-029 Result	ES1529109-030 Result	ES1529109-031 Result
<b>EP080: BTEXN - Continued</b>						
^ Total Xylenes	1330-20-7	0.5	mg/kg	-----	-----	-----
Naphthalene	91-20-3	1	mg/kg	-----	-----	-----
<b>EP066S: PCB Surrogate</b>						
Decachlorobiphenyl	2051-24-3	0.1	%	-----	75.8	-----
<b>EP068S: Organochlorine Pesticide Surrogate</b>						
Dibromo-DDE	21655-73-2	0.05	%	-----	113	-----
<b>EP068T: Organophosphorus Pesticide Surrogate</b>						
DEF	78-48-8	0.05	%	-----	99.5	-----
<b>EP074S: VOC Surrogates</b>						
1,2-Dichloroethane-D4	17060-07-0	0.5	%	-----	-----	-----
Toluene-D8	2037-26-5	0.5	%	-----	-----	-----
1,3-Dibromofluorobenzene	460-00-4	0.5	%	-----	-----	-----
<b>EP075(SIM)S: Phenolic Compound Surrogates</b>						
Phenol-d6	13127-88-3	0.5	%	90.5	90.3	93.3
2-Chlorophenol-D4	93951-73-6	0.5	%	83.1	84.8	95.8
2,4,6-Tribromophenol	118-79-6	0.5	%	110	94.9	106
<b>EP075(SIM)T: PAH Surrogates</b>						
2-Fluorobiphenyl	321-60-8	0.5	%	88.7	92.7	93.4
Anthracene-d10	1719-06-8	0.5	%	113	110	116
4-Terphenyl-d14	1718-51-0	0.5	%	88.6	93.7	95.3
<b>EP080S: TPH(V)/BTEX Surrogates</b>						
1,2-Dichloroethane-D4	17060-07-0	0.2	%	-----	-----	-----
Toluene-D8	2037-26-5	0.2	%	-----	-----	-----
4-Bromofluorobenzene	460-00-4	0.2	%	-----	-----	-----
				90.2	92.4	87.4



Sub-Matrix: SOIL (Matrix: SOIL)	BH12_1.0-1.1 [21-Aug-2015] ES1529109-032	BH12_1.8-1.9 [21-Aug-2015] ES1529109-033	BH12_3.6-3.7 [21-Aug-2015] ES1529109-034	BH07B_1.2-1.3 [21-Aug-2015] ES1529109-035	BH07B_2.3-2.4 [21-Aug-2015] ES1529109-036
<b>EA055: Moisture Content</b>					
^ Moisture Content (dried @ 103°C)	46.8		50.8	41.1	36.4
<b>EA200: AS 4964 - 2004 Identification of Asbestos in Soils</b>					
Asbestos Detected	No	No		No	
Asbestos Type	-	-		-	
Sample weight (dry)	0.01	100		101	
APPROVED IDENTIFIER:	G.MORGAN	G.MORGAN		G.MORGAN	
<b>EG005T: Total Metals by ICP-AES</b>					
Arsenic	34			8	26
Cadmium	2			2	1
Chromium	47			128	19
Copper	12400			85	183
Lead	1530			7530	372
Nickel	57			13	22
Zinc	2040			1120	1460
<b>EG035T: Total Recoverable Mercury by FIMS</b>					
Mercury	1.0			6.2	0.6
<b>EP066: Polychlorinated Biphenyls (PCB)</b>					
Total Polychlorinated biphenyls				<0.1	
<b>EP068A: Organochlorine Pesticides (OC)</b>					
alpha-BHC				<0.05	
Hexachlorobenzene (HCB)				<0.05	
beta-BHC				<0.05	
gamma-BHC				<0.05	
delta-BHC				<0.05	
Heptachlor				<0.05	
Aldrin				<0.05	
Heptachlor epoxide				<0.05	
^ Total Chlordane (sum)				<0.05	
trans-Chlordane				<0.05	
alpha-Endosulfan				<0.05	
cis-Chlordane				<0.05	
Dieldrin				<0.05	
4,4'-DDE				<0.05	
Endrin				<0.05	



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Sub-Matrix: SOIL (Matrix: SOIL)	BH12_1.0-1.1 [21-Aug-2015] ES1529109-032	BH12_1.8-1.9 [21-Aug-2015] ES1529109-033	BH12_3.6-3.7 [21-Aug-2015] ES1529109-034	BH07B_1.2-1.3 [21-Aug-2015] ES1529109-035	BH07B_2.3-2.4 [21-Aug-2015] ES1529109-036
<b>EP068A: Organochlorine Pesticides (OC) - Continued</b>					
beta-Endosulfan	33213-65-9	0.05	mg/kg	Result	Result
^ Endosulfan (sum)	115-29-7	0.05	mg/kg	<0.05	Result
4,4'-DDD	72-54-8	0.05	mg/kg	<0.05	Result
Endrin aldehyde	7421-93-4	0.05	mg/kg	<0.05	Result
Endosulfan sulfate	1031-07-8	0.05	mg/kg	<0.05	Result
4,4'-DDT	50-29-3	0.2	mg/kg	<0.2	Result
Endrin ketone	53494-70-5	0.05	mg/kg	<0.05	Result
Methoxychlor	72-43-5	0.2	mg/kg	<0.2	Result
^ Sum of Aldrin + Dieldrin	309-00-2/60-57-1	0.05	mg/kg	<0.05	Result
^ Sum of DDD + DDE + DDT	-----	0.05	mg/kg	<0.05	Result
<b>EP068B: Organophosphorus Pesticides (OP)</b>					
OPDichlorvos	62-73-7	0.05	mg/kg	Result	Result
OPDibrometon-S-methyl	919-86-8	0.05	mg/kg	<0.05	Result
OPMonocrotophos	6923-22-4	0.2	mg/kg	<0.2	Result
Dimethoate	60-51-5	0.05	mg/kg	<0.05	Result
Diazinon	333-41-5	0.05	mg/kg	<0.05	Result
Chlorpyrifos-methyl	5598-13-0	0.05	mg/kg	<0.05	Result
Parathion-methyl	298-00-0	0.2	mg/kg	<0.2	Result
Malathion	121-75-5	0.05	mg/kg	<0.05	Result
Fenthion	55-38-9	0.05	mg/kg	<0.05	Result
Chlorpyrifos	2921-88-2	0.05	mg/kg	<0.05	Result
Parathion	56-38-2	0.2	mg/kg	<0.2	Result
Pirimphos-ethyl	23505-41-1	0.05	mg/kg	<0.05	Result
Chlorfenvinphos	470-90-6	0.05	mg/kg	<0.05	Result
Bromophos-ethyl	4824-78-6	0.05	mg/kg	<0.05	Result
Fenamiphos	22224-92-6	0.05	mg/kg	<0.05	Result
Prothiofos	34643-46-4	0.05	mg/kg	<0.05	Result
Ethion	563-12-2	0.05	mg/kg	<0.05	Result
Carbophenothion	786-19-6	0.05	mg/kg	<0.05	Result
Azinphos Methyl	86-50-0	0.05	mg/kg	<0.05	Result
<b>EP074D: Fumigants</b>					
2,2-Dichloropropane	594-20-7	0.5	mg/kg	Result	Result
1,2-Dichloropropane	78-87-5	0.5	mg/kg	Result	Result
cis-1,3-Dichloropropylene	10061-01-5	0.5	mg/kg	Result	Result



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Sub-Matrix: SOIL (Matrix: SOIL)	BH12_1.0-1.1 [21-Aug-2015] ES1529109-032 Result	BH12_1.8-1.9 [21-Aug-2015] ES1529109-033 Result	BH12_3.6-3.7 [21-Aug-2015] ES1529109-034 Result	BH07B_1.2-1.3 [21-Aug-2015] ES1529109-035 Result	BH07B_2.3-2.4 [21-Aug-2015] ES1529109-036 Result
<b>EP074D: Fumigants - Continued</b>					
trans-1,3-Dichloropropylene	10061-02-6	0.5	mg/kg	****	****
1,2-Dibromoethane (EDB)	106-93-4	0.5	mg/kg	****	****
<b>EP074E: Halogenated Aliphatic Compounds</b>					
Dichlorodifluoromethane	75-71-8	5	mg/kg	****	****
Chloromethane	74-87-3	5	mg/kg	****	****
Vinyl chloride	75-01-4	5	mg/kg	****	****
Bromomethane	74-83-9	5	mg/kg	****	****
Chloroethane	75-00-3	5	mg/kg	****	****
Trichlorofluoromethane	75-69-4	5	mg/kg	****	****
1,1-Dichloroethene	75-35-4	0.5	mg/kg	****	****
Iodomethane	74-88-4	0.5	mg/kg	****	****
trans-1,2-Dichloroethene	156-60-5	0.5	mg/kg	****	****
cis-1,2-Dichloroethene	75-34-3	0.5	mg/kg	****	****
1,1,1-Trichloroethane	156-59-2	0.5	mg/kg	****	****
1,1-Dichloropropylene	71-55-6	0.5	mg/kg	****	****
Carbon Tetrachloride	563-58-6	0.5	mg/kg	****	****
1,2-Dichloroethane	56-23-5	0.5	mg/kg	****	****
Trichloroethene	107-06-2	0.5	mg/kg	****	****
Dibromomethane	79-01-6	0.5	mg/kg	****	****
1,1,2-Trichloroethane	74-95-3	0.5	mg/kg	****	****
1,3-Dichloropropane	79-00-5	0.5	mg/kg	****	****
Tetrachloroethene	142-28-9	0.5	mg/kg	****	****
1,1,1,2-Tetrachloroethane	127-18-4	0.5	mg/kg	****	****
trans-1,4-Dichloro-2-butene	630-20-6	0.5	mg/kg	****	****
cis-1,4-Dichloro-2-butene	110-57-6	0.5	mg/kg	****	****
1,1,2,2-Tetrachloroethane	1476-11-5	0.5	mg/kg	****	****
1,2,3-Trichloropropane	79-34-5	0.5	mg/kg	****	****
Pentachloroethane	96-18-4	0.5	mg/kg	****	****
1,2-Dibromo-3-chloropropane	76-01-7	0.5	mg/kg	****	****
Hexachlorobutadiene	96-12-8	0.5	mg/kg	****	****
	87-68-3	0.5	mg/kg	****	****
<b>EP074F: Halogenated Aromatic Compounds</b>					
Chlorobenzene	108-90-7	0.5	mg/kg	****	****
Bromobenzene	108-86-1	0.5	mg/kg	****	****



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Sub-Matrix: SOIL (Matrix: SOIL)	BH12_1.0-1.1 [21-Aug-2015] ES1529109-032 Result	BH12_1.8-1.9 [21-Aug-2015] ES1529109-033 Result	BH12_3.6-3.7 [21-Aug-2015] ES1529109-034 Result	BH07B_1.2-1.3 [21-Aug-2015] ES1529109-035 Result	BH07B_2.3-2.4 [21-Aug-2015] ES1529109-036 Result
<b>EP074F: Halogenated Aromatic Compounds - Continued</b>					
2-Chlorotoluene	95-49-8	0.5	mg/kg	****	****
4-Chlorotoluene	106-43-4	0.5	mg/kg	****	****
1,3-Dichlorobenzene	541-73-1	0.5	mg/kg	****	****
1,4-Dichlorobenzene	106-46-7	0.5	mg/kg	****	****
1,2-Dichlorobenzene	95-50-1	0.5	mg/kg	****	****
1,2,4-Trichlorobenzene	120-82-1	0.5	mg/kg	****	****
1,2,3-Trichlorobenzene	87-61-6	0.5	mg/kg	****	****
<b>EP074G: Trihalomethanes</b>					
Chloroform	67-66-3	0.5	mg/kg	****	****
Bromodichloromethane	75-27-4	0.5	mg/kg	****	****
Dibromochloromethane	124-48-1	0.5	mg/kg	****	****
OBromoform	75-25-2	0.5	mg/kg	****	****
<b>EP075(SIM)A: Phenolic Compounds</b>					
Phenol	108-95-2	0.5	mg/kg	****	****
2-Chlorophenol	95-57-8	0.5	mg/kg	****	****
2-Methylphenol	95-48-7	0.5	mg/kg	****	****
3- & 4-Methylphenol	1319-77-3	1	mg/kg	****	****
2-Nitrophenol	88-75-5	0.5	mg/kg	****	****
2,4-Dimethylphenol	105-67-9	0.5	mg/kg	****	****
2,4-Dichlorophenol	120-83-2	0.5	mg/kg	****	****
2,6-Dichlorophenol	87-65-0	0.5	mg/kg	****	****
4-Chloro-3-methylphenol	59-50-7	0.5	mg/kg	****	****
2,4,6-Trichlorophenol	88-06-2	0.5	mg/kg	****	****
2,4,5-Trichlorophenol	95-95-4	0.5	mg/kg	****	****
Pentachlorophenol	87-86-5	2	mg/kg	****	****
<b>EP075(SIM)B: Polynuclear Aromatic Hydrocarbons</b>					
Naphthalene	91-20-3	0.5	mg/kg	****	<0.5
Acenaphthylene	208-96-8	0.5	mg/kg	****	<0.5
Acenaphthene	83-32-9	0.5	mg/kg	****	<0.5
Fluorene	86-73-7	0.5	mg/kg	****	<0.5
Phenanthrene	85-01-8	0.5	mg/kg	****	0.9
Anthracene	120-12-7	0.5	mg/kg	****	<0.5
Fluoranthene	206-44-0	0.5	mg/kg	****	2.2
Pyrene	129-00-0	0.5	mg/kg	****	2.2





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Sub-Matrix: SOIL (Matrix: SOIL)	BH12_1.0-1.1 [21-Aug-2015] ES1529109-032	BH12_1.8-1.9 [21-Aug-2015] ES1529109-033	BH12_3.6-3.7 [21-Aug-2015] ES1529109-034	BH07B_1.2-1.3 [21-Aug-2015] ES1529109-035	BH07B_2.3-2.4 [21-Aug-2015] ES1529109-036
	Result	Result	Result	Result	Result
<b>EP075(SIM)B: Polynuclear Aromatic Hydrocarbons - Continued</b>					
Benz(a)anthracene	56-55-3 0.5 mg/kg	-----	-----	1.3	-----
Chrysene	218-01-9 0.5 mg/kg	-----	-----	1.6	-----
Benzo(b+)fluoranthene	205-99-2 205-82-3 0.5 mg/kg	-----	-----	2.5	-----
Benzo(k)fluoranthene	207-08-9 0.5 mg/kg	-----	-----	0.8	-----
Benzo(a)pyrene	50-32-8 0.5 mg/kg	-----	-----	1.9	-----
Indeno(1,2,3-cd)pyrene	193-39-5 0.5 mg/kg	-----	-----	1.1	-----
Dibenz(a,h)anthracene	53-70-3 0.5 mg/kg	-----	-----	<0.5	-----
Benzo(g,h,i)perylene	191-24-2 0.5 mg/kg	-----	-----	1.5	-----
^ Sum of polycyclic aromatic hydrocarbons	----- 0.5 mg/kg	-----	-----	16.0	-----
^ Benzo(a)pyrene TEQ (zero)	----- 0.5 mg/kg	-----	-----	2.5	-----
^ Benzo(a)pyrene TEQ (half LOR)	----- 0.5 mg/kg	-----	-----	2.8	-----
^ Benzo(a)pyrene TEQ (LOR)	----- 0.5 mg/kg	-----	-----	3.0	-----
<b>EP080/071: Total Petroleum Hydrocarbons</b>					
C6 - C9 Fraction	10 mg/kg	-----	<10	<10	<10
C10 - C14 Fraction	50 mg/kg	-----	<50	<50	<50
C15 - C28 Fraction	100 mg/kg	-----	1220	490	230
C29 - C36 Fraction	100 mg/kg	-----	600	440	170
^ C10 - C36 Fraction (sum)	50 mg/kg	-----	1820	930	400
<b>EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions</b>					
C6 - C10 Fraction	10 mg/kg	-----	<10	<10	<10
^ C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX 10 mg/kg	-----	<10	<10	<10
>C10 - C16 Fraction	50 mg/kg	-----	70	<50	<50
>C16 - C34 Fraction	100 mg/kg	-----	1660	850	360
>C34 - C40 Fraction	100 mg/kg	-----	430	180	100
^ >C10 - C40 Fraction (sum)	50 mg/kg	-----	2160	1030	460
^ >C10 - C16 Fraction minus Naphthalene (F2)	50 mg/kg	-----	70	<50	<50
<b>EP080: BTEXN</b>					
Benzene	71-43-2 0.2 mg/kg	-----	<0.2	<0.2	<0.2
Toluene	108-88-3 0.5 mg/kg	-----	<0.5	<0.5	<0.5
Ethylbenzene	100-41-4 0.5 mg/kg	-----	<0.5	<0.5	<0.5
meta- & para-Xylene	108-38-3 106-42-3 0.5 mg/kg	-----	<0.5	<0.5	<0.5
ortho-Xylene	95-47-6 0.5 mg/kg	-----	<0.5	<0.5	<0.5
^ Sum of BTEX	0.2 mg/kg	-----	<0.2	<0.2	<0.2



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Sub-Matrix: SOIL (Matrix: SOIL)	BH12_1.0-1.1 [21-Aug-2015] ES1529109-032 Result	BH12_1.8-1.9 [21-Aug-2015] ES1529109-033 Result	BH12_3.6-3.7 [21-Aug-2015] ES1529109-034 Result	BH07B_1.2-1.3 [21-Aug-2015] ES1529109-035 Result	BH07B_2.3-2.4 [21-Aug-2015] ES1529109-036 Result
<b>EP080: BTEXN - Continued</b>					
^ Total Xylenes	1330-20-7	0.5	mg/kg	*****	<0.5
Naphthalene	91-20-3	1	mg/kg	*****	<1
<b>EP066S: PCB Surrogate</b>					
Decachlorobiphenyl	2051-24-3	0.1	%	*****	73.8
<b>EP068S: Organochlorine Pesticide Surrogate</b>					
Dibromo-DDE	21655-73-2	0.05	%	*****	103
<b>EP068T: Organophosphorus Pesticide Surrogate</b>					
DEF	78-48-8	0.05	%	*****	87.3
<b>EP074S: VOC Surrogates</b>					
1,2-Dichloroethane-D4	17060-07-0	0.5	%	*****	*****
Toluene-D8	2037-26-5	0.5	%	*****	*****
1,4-Dibromofluorobenzene	460-00-4	0.5	%	*****	*****
<b>EP075(SIM)S: Phenolic Compound Surrogates</b>					
Phenol-d6	13127-88-3	0.5	%	*****	96.8
2-Chlorophenol-D4	93951-73-6	0.5	%	*****	107
2,4,6-Tribromophenol	118-79-6	0.5	%	*****	97.4
<b>EP075(SIM)T: PAH Surrogates</b>					
2-Fluorobiphenyl	321-60-8	0.5	%	*****	99.8
Anthracene-d10	1719-06-8	0.5	%	*****	109
4-Terphenyl-d14	1718-51-0	0.5	%	*****	106
<b>EP080S: TPH(V)/BTEX Surrogates</b>					
1,2-Dichloroethane-D4	17060-07-0	0.2	%	*****	85.4
Toluene-D8	2037-26-5	0.2	%	*****	82.3
4-Bromofluorobenzene	460-00-4	0.2	%	*****	77.5
					95.5
					88.6
					87.0



Sub-Matrix: SOIL (Matrix: SOIL)	BH10_0.15-0.25 [21-Aug-2015] ES1529109-037	BH09_0.25-0.35 [21-Aug-2015] ES1529109-038	BH12_0.15-0.25 [21-Aug-2015] ES1529109-039	BH01_0.3-0.4 [21-Aug-2015] ES1529109-040	BH01_1.0-1.1 [21-Aug-2015] ES1529109-041
<b>EA055: Moisture Content</b>					
^ Moisture Content (dried @ 103°C)	5.0	3.5	20.3	----	39.4
<b>EA200: AS 4964 - 2004 Identification of Asbestos in Soils</b>					
Asbestos Detected	-----	-----	-----	Yes	-----
Asbestos Type	-----	-----	-----	Ch	-----
Sample weight (dry)	0.01	-----	-----	183	-----
APPROVED IDENTIFIER:	-----	-----	-----	S.SPOONER	-----
<b>EG005T: Total Metals by ICP-AES</b>					
Arsenic	-----	<5	41	-----	14
Cadmium	-----	<1	6	-----	2
Chromium	-----	6	36	-----	58
Copper	-----	7	2460	-----	3040
Lead	-----	6	2290	-----	1510
Nickel	-----	<2	75	-----	26
Zinc	-----	30	5200	-----	1560
<b>EG035T: Total Recoverable Mercury by FIMS</b>					
Mercury	-----	<0.1	1.7	-----	2.3
<b>EP066: Polychlorinated Biphenyls (PCB)</b>					
Total Polychlorinated biphenyls	<0.1	-----	-----	-----	<0.1
<b>EP068A: Organochlorine Pesticides (OC)</b>					
alpha-BHC	<0.05	-----	-----	-----	<0.05
Hexachlorobenzene (HCB)	<0.05	-----	-----	-----	<0.05
beta-BHC	<0.05	-----	-----	-----	<0.05
gamma-BHC	<0.05	-----	-----	-----	<0.05
delta-BHC	<0.05	-----	-----	-----	<0.05
Heptachlor	<0.05	-----	-----	-----	<0.05
Aldrin	<0.05	-----	-----	-----	<0.05
Heptachlor epoxide	<0.05	-----	-----	-----	<0.05
^ Total Chlordane (sum)	<0.05	-----	-----	-----	<0.05
trans-Chlordane	<0.05	-----	-----	-----	<0.05
alpha-Endosulfan	<0.05	-----	-----	-----	<0.05
cis-Chlordane	<0.05	-----	-----	-----	<0.05
Dieldrin	<0.05	-----	-----	-----	<0.05
4,4'-DDE	<0.05	-----	-----	-----	<0.05
Endrin	<0.05	-----	-----	-----	<0.05



Sub-Matrix: SOIL (Matrix: SOIL)	BH10_0.15-0.25 [21-Aug-2015] ES1529109-037	BH09_0.25-0.35 [21-Aug-2015] ES1529109-038	BH12_0.15-0.25 [21-Aug-2015] ES1529109-039	BH01_0.3-0.4 [21-Aug-2015] ES1529109-040	BH01_1.0-1.1 [21-Aug-2015] ES1529109-041
	Result	Result	Result	Result	Result
<b>EP068A: Organochlorine Pesticides (OC) - Continued</b>					
beta-Endosulfan	33213-65-9	0.05	mg/kg	<0.05	<0.05
^ Endosulfan (sum)	115-29-7	0.05	mg/kg	<0.05	<0.05
4,4'-DDD	72-54-8	0.05	mg/kg	<0.05	<0.05
Endrin aldehyde	7421-93-4	0.05	mg/kg	<0.05	<0.05
Endosulfan sulfate	1031-07-8	0.05	mg/kg	<0.05	<0.05
4,4'-DDT	50-29-3	0.2	mg/kg	<0.2	<0.2
Endrin ketone	53494-70-5	0.05	mg/kg	<0.05	<0.05
Methoxychlor	72-43-5	0.2	mg/kg	<0.2	<0.2
^ Sum of Aldrin + Dieldrin	309-00-2/60-57-1	0.05	mg/kg	<0.05	<0.05
^ Sum of DDD + DDE + DDT	----	0.05	mg/kg	<0.05	<0.05
<b>EP068B: Organophosphorus Pesticides (OP)</b>					
Dichlorvos	62-73-7	0.05	mg/kg	<0.05	<0.05
Demeton-S-methyl	919-86-8	0.05	mg/kg	<0.05	<0.05
Monocrotophos	6923-22-4	0.2	mg/kg	<0.2	<0.2
Dimethoate	60-51-5	0.05	mg/kg	<0.05	<0.05
Diazinon	333-41-5	0.05	mg/kg	<0.05	<0.05
Chlorpyrifos-methyl	5598-13-0	0.05	mg/kg	<0.05	<0.05
Parathion-methyl	298-00-0	0.2	mg/kg	<0.2	<0.2
Malathion	121-75-5	0.05	mg/kg	<0.05	<0.05
Fenthion	55-38-9	0.05	mg/kg	<0.05	<0.05
Chlorpyrifos	2921-88-2	0.05	mg/kg	<0.05	<0.05
Parathion	56-38-2	0.2	mg/kg	<0.2	<0.2
Pirimphos-ethyl	23505-41-1	0.05	mg/kg	<0.05	<0.05
Chlorfenvinphos	470-90-6	0.05	mg/kg	<0.05	<0.05
Bromophos-ethyl	4824-78-6	0.05	mg/kg	<0.05	<0.05
Fenamiphos	22224-92-6	0.05	mg/kg	<0.05	<0.05
Prothiofos	34643-46-4	0.05	mg/kg	<0.05	<0.05
Ethion	563-12-2	0.05	mg/kg	<0.05	<0.05
Carbophenothion	786-19-6	0.05	mg/kg	<0.05	<0.05
Azinphos Methyl	86-50-0	0.05	mg/kg	<0.05	<0.05
<b>EP074D: Fumigants</b>					
2,2-Dichloropropane	594-20-7	0.5	mg/kg	----	----
1,2-Dichloropropane	78-87-5	0.5	mg/kg	----	----
cis-1,3-Dichloropropylene	10061-01-5	0.5	mg/kg	----	----



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Sub-Matrix: SOIL (Matrix: SOIL)	BH10_0.15-0.25 [21-Aug-2015] ES1529109-037 Result	BH09_0.25-0.35 [21-Aug-2015] ES1529109-038 Result	BH12_0.15-0.25 [21-Aug-2015] ES1529109-039 Result	BH01_0.3-0.4 [21-Aug-2015] ES1529109-040 Result	BH01_1.0-1.1 [21-Aug-2015] ES1529109-041 Result
<b>EP074D: Fumigants - Continued</b>					
trans-1,3-Dichloropropylene	10061-02-6	0.5	mg/kg	****	****
1,2-Dibromoethane (EDB)	106-93-4	0.5	mg/kg	****	****
<b>EP074E: Halogenated Aliphatic Compounds</b>					
Dichlorodifluoromethane	75-71-8	5	mg/kg	****	****
Chloromethane	74-87-3	5	mg/kg	****	****
Vinyl chloride	75-01-4	5	mg/kg	****	****
Bromomethane	74-83-9	5	mg/kg	****	****
Chloroethane	75-00-3	5	mg/kg	****	****
Trichlorofluoromethane	75-69-4	5	mg/kg	****	****
1,1-Dichloroethene	75-35-4	0.5	mg/kg	****	****
Iodomethane	74-88-4	0.5	mg/kg	****	****
trans-1,2-Dichloroethene	156-60-5	0.5	mg/kg	****	****
cis-1,2-Dichloroethene	75-34-3	0.5	mg/kg	****	****
1,1,1-Trichloroethane	156-59-2	0.5	mg/kg	****	****
1,1-Dichloropropylene	71-55-6	0.5	mg/kg	****	****
Carbon Tetrachloride	563-58-6	0.5	mg/kg	****	****
1,2-Dichloroethane	56-23-5	0.5	mg/kg	****	****
Trichloroethene	107-06-2	0.5	mg/kg	****	****
Dibromomethane	79-01-6	0.5	mg/kg	****	****
1,1,2-Trichloroethane	74-95-3	0.5	mg/kg	****	****
1,3-Dichloropropane	79-00-5	0.5	mg/kg	****	****
Tetrachloroethene	142-28-9	0.5	mg/kg	****	****
1,1,1,2-Tetrachloroethane	127-18-4	0.5	mg/kg	****	****
trans-1,4-Dichloro-2-butene	630-20-6	0.5	mg/kg	****	****
cis-1,4-Dichloro-2-butene	110-57-6	0.5	mg/kg	****	****
1,1,2,2-Tetrachloroethane	1476-11-5	0.5	mg/kg	****	****
1,2,3-Trichloropropane	79-34-5	0.5	mg/kg	****	****
Pentachloroethane	96-18-4	0.5	mg/kg	****	****
1,2-Dibromo-3-chloropropane	76-01-7	0.5	mg/kg	****	****
Hexachlorobutadiene	96-12-8	0.5	mg/kg	****	****
	87-68-3	0.5	mg/kg	****	****
<b>EP074F: Halogenated Aromatic Compounds</b>					
Chlorobenzene	108-90-7	0.5	mg/kg	****	****
Bromobenzene	108-86-1	0.5	mg/kg	****	****